

Electronic Supplement: Colourimetric analysis of thermally altered human bone samples.

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ESM-1 Sample population

Bone samples in the learning set were divided over 58 subgroups, including exposure temperature, surrounding media, and exposure duration, with a minimum of 10 samples per subgroup (table s1). Samples in the test set were divided over 61 subgroups, including exposure temperature, size of the sample, surrounding medium and exposure duration, with a minimum of 5 samples per subgroup (table s2).

Table s1. Heating scheme for the learning set, transverse slices heated in two different media.

| Temperature: | Surrounding medium: | Duration (min.): | N (samples): |
|--------------|---------------------|------------------|--------------|
| Unheated | - | - | 58 |
| 100°C | Air | 10/20/30 | 12/12/16 |
| | Adipose tissue | 10/20/30 | 12/12/16 |
| 150°C | Air | 10/20/30 | 12/12/12 |
| | Adipose tissue | 10/20/30 | 12/12/12 |
| 200°C | Air | 10/20/30 | 12/12/16 |
| | Adipose tissue | 10/20/30 | 12/12/16 |
| 250°C | Air | 10/20/30 | 10/12/16 |
| | Adipose tissue | 10/20/30 | 11/12/16 |
| 300°C | Air | 10/20/30 | 12/12/16 |
| | Adipose tissue | 10/20/30 | 12/12/16 |
| 400°C | Air | 10/20/30 | 12/16/12 |
| | Adipose tissue | 10/20/30 | 12/16/12 |
| 450°C | Air | 10/20/30 | 10/12/10 |
| | Adipose tissue | 10/20/30 | 12/10/10 |
| 500°C | Air | 10/20/30 | 10/10/10 |
| 600°C | Air | 10/20/30 | 10/10/10 |
| 700°C | Air | 10/20/30 | 10/10/10 |
| 800°C | Air | 10/20/30 | 10/10/20 |
| 900°C | Air | 10/20/30 | 10/10/10 |
| Total: | | | 833 |

Table s2. Heating scheme for the test set, heated transverse larger sections (diaphyseal parts and epiphyseal ends) and transverse slices that were heated for a longer duration, including the surrounding media.

| Temperature: | Type: | Surrounding medium: | Duration (min.): | N (samples): |
|--------------|--------------------|-----------------------|------------------|--------------|
| Unheated | Transverse section | - | - | 5 |
| 100°C | Transverse section | Air | 5/10/20/30/50 | 5/5/5/5/5 |
| | Larger section | Adipose tissue Air | 20/30 30 | 5/5 5 |
| 250°C | Transverse section | Air | 5/10/20/30/50 | 5/5/5/5/5 |
| | Larger section | Adipose tissue Air | 20/30 30 | 5/5 5 |
| 300°C | Transverse section | Air | 5/10/20/30/50 | 5/5/5/5/5 |
| | Larger section | Adipose tissue Air | 20/30 30 | 5/5 5 |
| 350°C | Transverse section | Air | 5/50 | 5/5 |
| | Larger section | Air | 30 | 5 |
| 450°C | Transverse section | Air | 5/10/20/30/50 | 5/5/5/5/5 |
| | Larger section | Air | 30 | 5 |
| 500°C | Transverse section | Air | 5/10/20/30/50 | 5/5/5/5/5 |
| | Larger section | Air | 30 | 5 |
| 600°C | Transverse section | Air | 5/50 | 5/5 |
| | Larger section | Air | 30 | 5 |
| 650°C | Transverse section | Air | 10/20/30/50 | 5/5/5/5 |
| | Larger section | Air | 30 | 5 |
| 700°C | Transverse section | Air | 5/10/20/30/50 | 5/5/5/5/5 |
| | Larger section | Air | 30 | 5 |
| 800°C | Transverse section | Air | 5 | 5 |
| 850°C | Transverse section | Air | 10/20/30/50 | 5/5/5/5 |
| | Larger section | Air | 30 | 5 |
| 900°C | Transverse section | Air | 5 | 5 |
| Total: | | | | 305 |

ESM-2 Data acquisition by means of ImageJ and colour calibration.

The X-rite Munsell colourchecker Classic chart as well as all samples were scanned by means of a flatbed scanner (Epson for the learning set and HP for the data set, file type TIFF) and photographically recorded with a DSLR (Nikon D700, stored in file type RAW and converted to TIFF in Adobe Lightroom). The image files were loaded into ImageJ software as shown in fig. s1A (version 1.51j8; Java 1.8.0_112), and colourimetric data was collected with ImageJ procedures (toolkit: ijp-toolkit_bin.2.1.0).

In order to collect data in $L^*A^*B^*$ colours the image has to be converted with the following image processing step: in 'Plugins' select 'Color' and choose 'RGB to $L^*A^*B^*$ stack'. The converted image is displayed in grayscale (fig. s1B). However, the data presented by the toolkit represents colourimetric data in $L^*A^*B^*$, this can be verified by looking up the specific colour for the collected $L^*A^*B^*$ data. By means of the Selection Brush Tool the surface area of the sample can be selected. This selection excludes a few millimetres from the outskirts of the sample to avoid incorrect measurements due to overexposure and chromatic aberration at the edges of the image bone fragment. The $L^*A^*B^*$ data can be collected by selecting 'Measurement Bands', which can be found in the submenu 'Color' under 'Plugins'. The mean value of the $L^*A^*B^*$ parameters for the pixels in the selected surface was used for further analysis. In order to obtain RGB values the same steps should be taken without the conversion to $L^*A^*B^*$. In case of colour differences due to differences in heat exposure it is possible to select the areas of the bone to determine the highest and lowest exposure temperature, as can be seen in fig. s2.

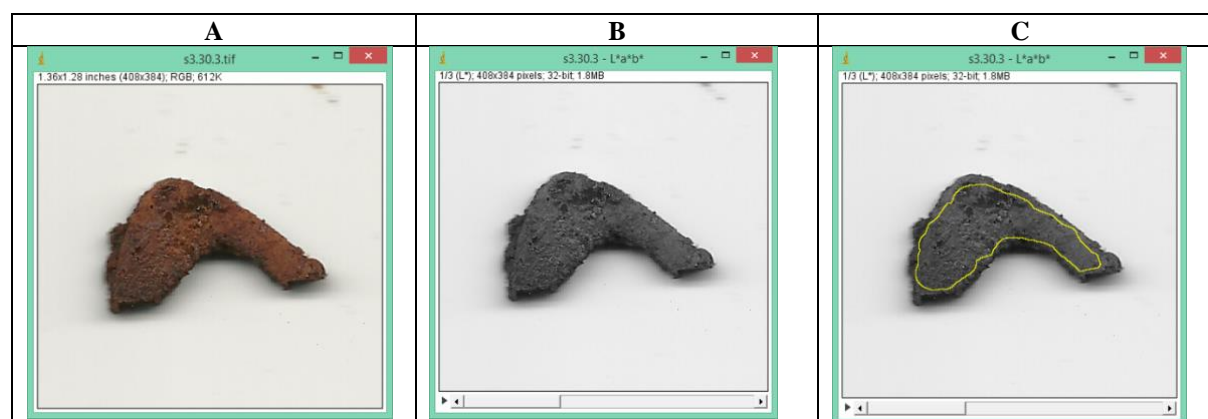


Fig. s1 Colour extraction in ImageJ based on a scan of a transverse cross section. A: the original image, B: the image converted to $L^*A^*B^*$, and C: the selection of the area from which colourimetric data is collected.

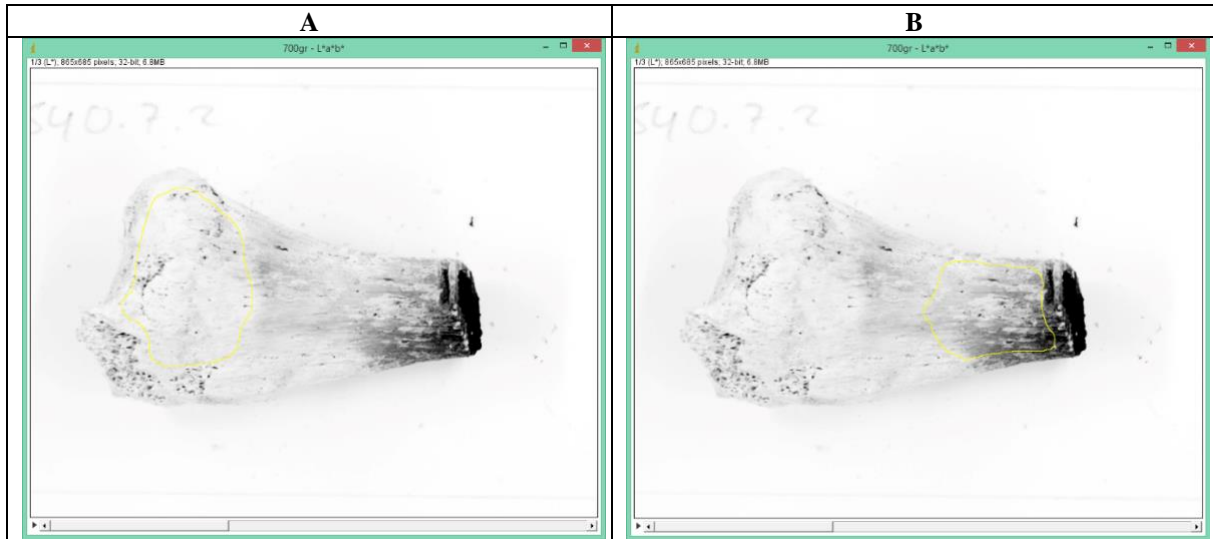


Fig. s2 Colour extraction in ImageJ based on a photograph of an epiphyses with a small part of the diaphysis. A shows the selection of the white part and B shows the selection of the grey part.

The devices (Flatbed scanners Epson and HP, and DSLR Nikon D700) were colour calibrated by means of an X-rite Munsell colourchecker Classic chart. The chart was scanned prior to scanning the samples, halfway through the scanning session and at the end of the scanning session. The dynamic range and specific colour values and coordinates were measured in Red (R), Green (G), Blue (B), Lightness (L^*), A and B-coordinates (A^* , B^*) for the black, white and tile #2 of the chart. The mean of the values obtained in the three scans of the chart was calculated (see tables s3, s4 and s5), and subsequently measurements values of the bone samples were corrected by adding or subtracting the calculated mean.

Table s3. The dynamic range and colour of the flatbed scanner used for the learning set (Epson), based on black, white and tile #2.

| | R | G | B | L^* | A^* | B^* |
|----------------|---------|---------|---------|--------|--------|--------|
| Black | | | | | | |
| Colourchart: | 52 | 52 | 52 | 20,461 | -0,079 | -0,973 |
| Scanner: | 47,612 | 48,349 | 49,493 | 20,004 | -0,024 | -0,835 |
| White | | | | | | |
| Colourchart: | 243 | 243 | 242 | 96,539 | -0,425 | 1,186 |
| Scanner: | 239,501 | 240,111 | 239,906 | 94,710 | -0,218 | 0,028 |
| Tile #2 | | | | | | |
| Colourchart: | 194 | 150 | 130 | 65,711 | 18,13 | 17,81 |
| Scanner: | 189,429 | 138,709 | 126,068 | 62,306 | 17,678 | 13,885 |

Table s4. The dynamic range and colour of the flatbed scanner used for the test set, based on black, white, and tile #2.

| | L^* | B^* |
|----------------|---------|---------|
| Black | | |
| Colourchart: | 20,461 | -0,973 |
| Scanner: | 20,985 | 2,256 |
| White | | |
| Colourchart: | 96,539 | 1,186 |
| Scanner: | 99,650 | 3,772 |
| Tile #2 | | |
| Colourchart: | 65,711 | 17,81 |
| Scanner: | 65,8344 | 21,7182 |

Table s5. The dynamic range and colour of the Nikon D700 used for the test set, based on black white, and tile #2.

| | L^* | B^* |
|----------------|--------|--------|
| Black | | |
| Colourchart: | 20,461 | -0,973 |
| Camera: | 5,62 | -3,32 |
| White | | |
| Colourchart: | 96,539 | 1,186 |
| Camera: | 98,54 | -0,13 |
| Tile #2 | | |
| Colourchart: | 65,711 | 17,81 |
| Camera: | 81,208 | 15,944 |

ESM-3 Results of learning set

Fig. s3 shows the colourimetric data for channels Red (R), Green (G), and Blue (B), based on 833 samples heated in the range of 100°C to 900°C for a duration of 10 to 30 minutes in two different media. Fig. s4 shows the colourimetric data for Lightness (L*) and the A- and B-coordinates (A*, B*), based on 833 samples heated in the range of 100°C to 900°C for a duration of 10 to 30 minutes in two different media.

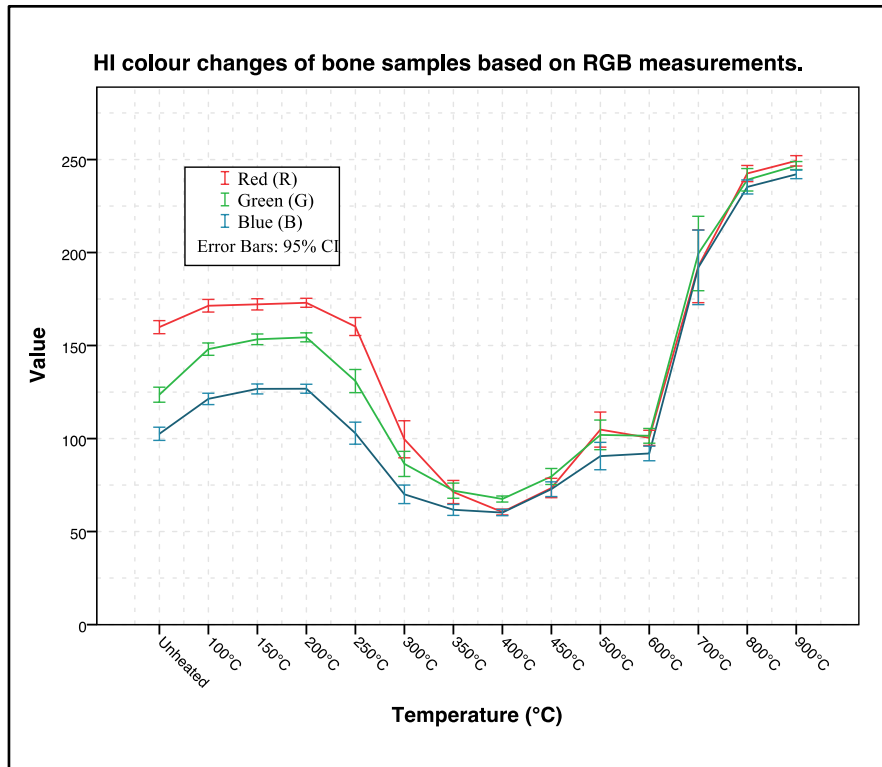


Fig. s3 HI colour changes of bone samples heated in the range of 100 - 900°C for 10 to 30 minutes in media air and adipose tissue measured in RGB (N=833, see ESM-1, table s1 for information on subgroups).

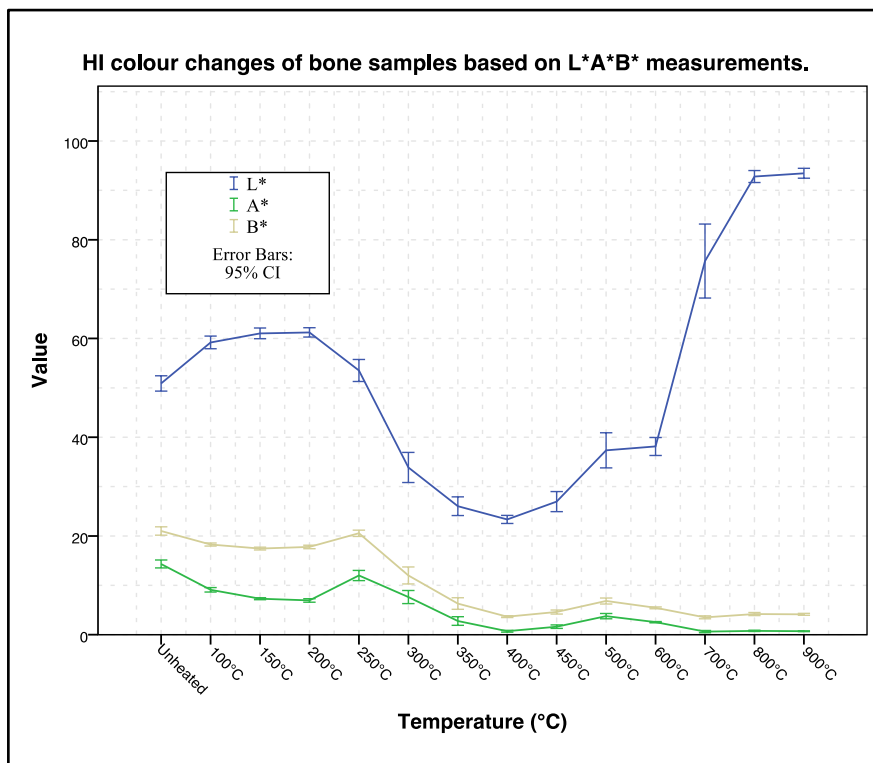


Fig. s4 HI colour changes of bone samples heated in the range of 100 - 900°C for 10 to 30 minutes in media air and adipose tissue measured in L*A*B* (N=833, see ESM-1, table s1 for information on subgroups).

There was a strong correlation between R, G, B and L*, based on the Pearson correlations. The correlation between R,G,B,L* on one hand and A* and B* on the other is considerably lower (table s6, also compare fig. s3 and s4). Therefore, the information in the RGB colour model and the L* channel of the L*A*B* colour model is very similar it was decided to continue with just the L*A*B* colour model. To illustrate the relations between L*, A* and B*, the measured data was plotted in 2D scatterplots. The data of L* plotted against B* was more spread out than L* plotted against A*, leading to more identifiable clusters (fig. s5).

Table s6. Pearson correlations between RGB and L*A*B* (learning set, N=833).

| | | R | G | B | L* | A* | B* |
|-----------|---------------------|----------|----------|----------|-----------|-----------|-----------|
| R | Pearson Correlation | 1 | 0,963 | 0,910 | 0,982 | 0,289 | 0,432 |
| | Sig. (2-tailed) | | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 |
| | N | 833 | 833 | 833 | 833 | 833 | 833 |
| G | Pearson Correlation | 0,963 | 1 | 0,981 | 0,988 | 0,038 | 0,201 |
| | Sig. (2-tailed) | 0,000 | | 0,000 | 0,000 | 0,267 | 0,000 |
| | N | 833 | 833 | 833 | 833 | 833 | 833 |
| B | Pearson Correlation | 0,910 | 0,981 | 1 | 0,957 | -0,100 | 0,029 |
| | Sig. (2-tailed) | 0,000 | 0,000 | | 0,000 | 0,004 | 0,409 |
| | N | 833 | 833 | 833 | 833 | 833 | 833 |
| L* | Pearson Correlation | 0,982 | 0,988 | 0,957 | 1 | 0,136 | 0,297 |
| | Sig. (2-tailed) | 0,000 | 0,000 | 0,000 | | 0,000 | 0,000 |
| | N | 833 | 833 | 833 | 833 | 833 | 833 |
| A* | Pearson Correlation | 0,289 | 0,038 | -0,100 | 0,136 | 1 | 0,896 |
| | Sig. (2-tailed) | 0,000 | 0,267 | 0,004 | 0,000 | | 0,000 |
| | N | 833 | 833 | 833 | 833 | 833 | 833 |
| B* | Pearson Correlation | 0,432 | 0,201 | 0,029 | 0,297 | 0,896 | 1 |
| | Sig. (2-tailed) | 0,000 | 0,000 | 0,409 | 0,000 | 0,000 | |
| | N | 833 | 833 | 833 | 833 | 833 | 833 |

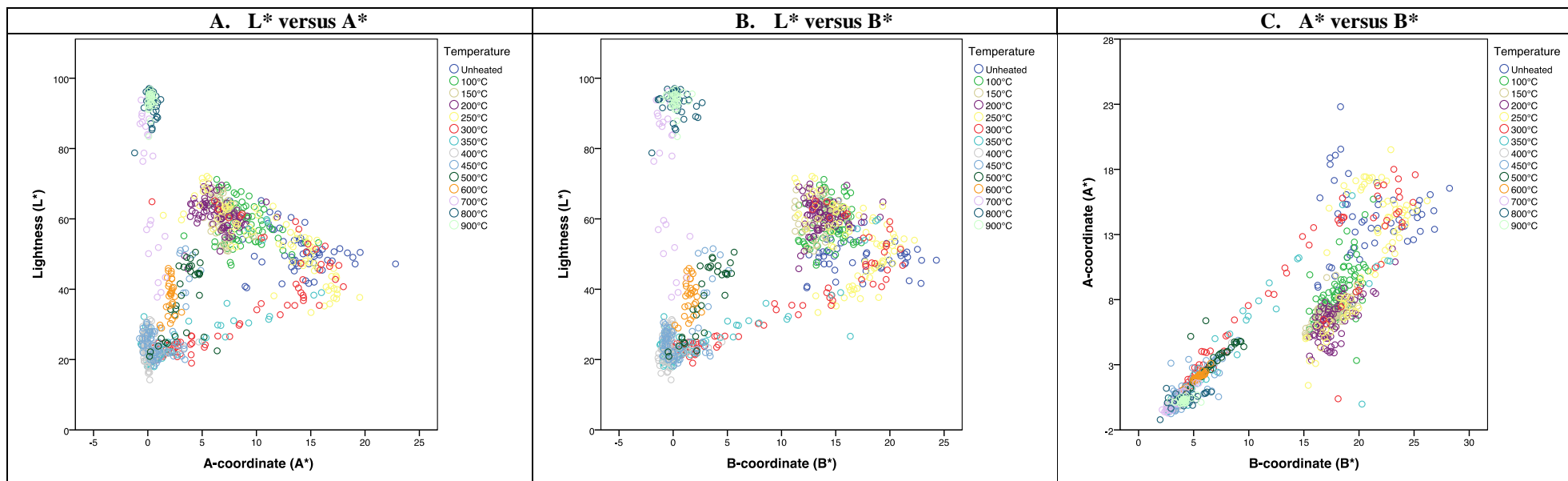


Fig. s5 2D scatterplots of the three parameters within the L*A*B* colour space. The data is most spread out when L* is shown against B* (B), slightly less when L is shown against A* (A), and least spread out when B* is shown against A* (C). See ESM-3 table 6 for associated correlations.

Testing the effects of the different additional variables in the data set.

To determine the effect of additional variables in the dataset on the variation of the colourimetric parameters a multivariate analysis of variance (MANOVA) was performed on the parameters L* and B* with the factors sex, age group, skeletal element, surrounding medium, duration and temperature. Missing categories in a multivariate design are known to bias the results of the MANOVA due to interpolation (fig. s6 and s7), Therefore the analysis was restricted to the samples with an exposure temperature above 300°C. The results of this MANOVA test are shown in table s7 (number of observations per factor) and table s8. Table s8 shows a significant effect of exposure temperature on L* and B* and a small effect of surrounding medium on B*. The effects of the other additional variables not approaching significance. The tests of tow and more-way interactions between the factors only show significance for some interactions involving exposure temperature. This test results shows that the effects of sex, age and skeletal element can be ignored in the analysis of the effect of exposure temperature on the L* and B* parameters in the colourimetric dataset. Because of the small effect of surrounding medium and its highly significant interaction with exposure temperature (both on the B* parameter) this factor was included in the multiple regression analysis (see main text).

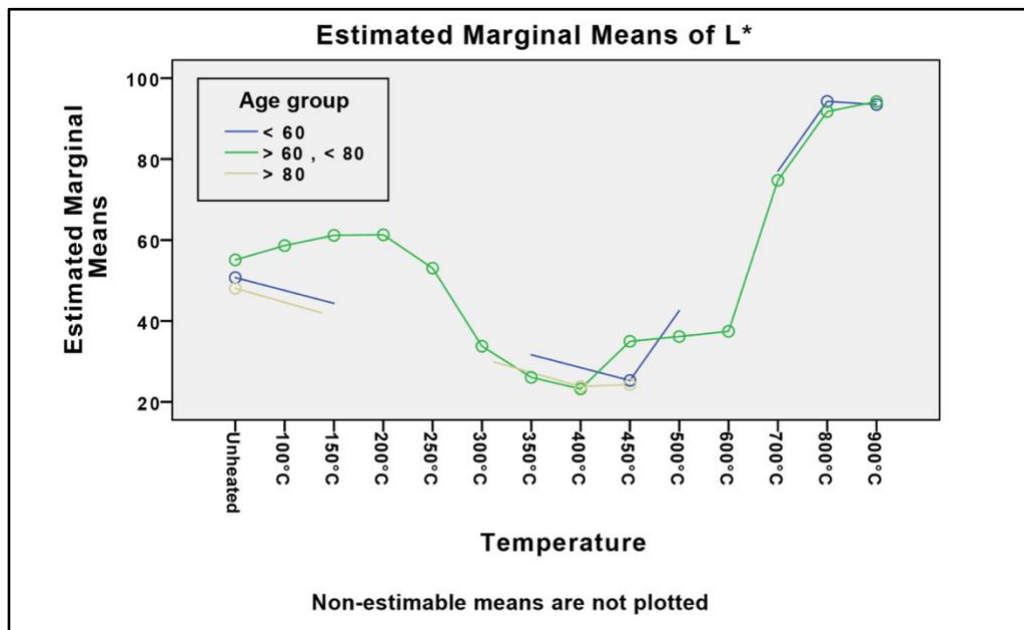


Fig. s6 Graph of the temperature dependent changes of the estimated marginal means of L*.

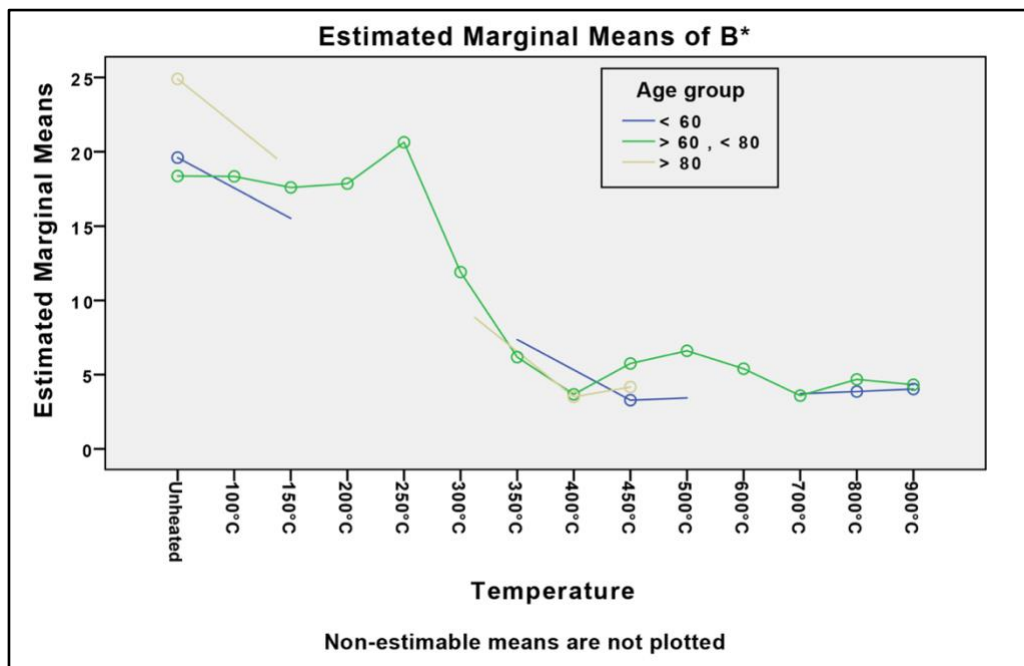


Fig. s7 Graph of the estimated marginal means of B* plotted against temperature.

Table s7. Number of observations per factor in the MANOVA on the learning set. Only samples with an exposure temperature above 300°C were included.

| | | Value Label | N |
|------------------|-------|-------------|-----|
| Sex | 1 | Male | 274 |
| | 2 | Female | 112 |
| Skeletal element | 1 | Ulna | 151 |
| | 2 | Radius | 179 |
| | 3 | Humerus | 56 |
| Media | 1 | Air | 274 |
| | 2 | Fat | 112 |
| Temperature | 350°C | | 80 |
| | 400°C | | 80 |
| | 450°C | | 64 |
| | 500°C | | 32 |
| | 600°C | | 30 |
| | 700°C | | 30 |
| | 800°C | | 40 |
| | 900°C | | 30 |
| Age group | 1 | < 60 | 46 |
| | 2 | > 60 , < 80 | 276 |
| | 3 | > 80 | 64 |

Table s8. Results of the MANOVA on the learning set. Only samples with an exposure temperature above 300°C were included.

| Source | Dependent Variable | Type III Sum of Squares | df | Mean Square | F | Sig. |
|--|--------------------|-------------------------|-----|-------------|---------|------|
| Sex | L* | 86,006 | 1 | 86,006 | 1,369 | ,243 |
| | B* | 2,078 | 1 | 2,078 | ,325 | ,569 |
| Skeletal element | L* | 92,895 | 2 | 46,448 | ,739 | ,478 |
| | B* | 5,039 | 2 | 2,519 | ,394 | ,674 |
| Media | L* | ,238 | 1 | ,238 | ,004 | ,951 |
| | B* | 22,154 | 1 | 22,154 | 3,469 | ,063 |
| Temperature | L* | 118285,466 | 7 | 16897,924 | 268,892 | ,000 |
| | B* | 378,553 | 7 | 54,079 | 8,467 | ,000 |
| Age group | L* | 7,125 | 2 | 3,562 | ,057 | ,945 |
| | B* | ,426 | 2 | ,213 | ,033 | ,967 |
| Sex * Skeletal element | L* | 71,701 | 1 | 71,701 | 1,141 | ,286 |
| | B* | 2,832 | 1 | 2,832 | ,443 | ,506 |
| Sex * Media | L* | 37,366 | 1 | 37,366 | ,595 | ,441 |
| | B* | ,232 | 1 | ,232 | ,036 | ,849 |
| Sex * Temperature | L* | 1361,871 | 7 | 194,553 | 3,096 | ,004 |
| | B* | 59,566 | 7 | 8,509 | 1,332 | ,234 |
| Sex * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Skeletal element * Media | L* | 171,306 | 2 | 85,653 | 1,363 | ,257 |
| | B* | 1,287 | 2 | ,644 | ,101 | ,904 |
| Skeletal element * Temperature | L* | 493,379 | 12 | 41,115 | ,654 | ,795 |
| | B* | 21,342 | 12 | 1,779 | ,278 | ,992 |
| Skeletal element * Age group | L* | 3,749 | 1 | 3,749 | ,060 | ,807 |
| | B* | 1,264 | 1 | 1,264 | ,198 | ,657 |
| Media * Temperature | L* | 189,071 | 2 | 94,535 | 1,504 | ,224 |
| | B* | 97,681 | 2 | 48,840 | 7,647 | ,001 |
| Media * Age group | L* | 13,756 | 1 | 13,756 | ,219 | ,640 |
| | B* | ,065 | 1 | ,065 | ,010 | ,920 |
| Temperature * Age group | L* | 69,760 | 2 | 34,880 | ,555 | ,575 |
| | B* | 3,095 | 2 | 1,547 | ,242 | ,785 |
| Sex * Skeletal element * Media | L* | 41,472 | 1 | 41,472 | ,660 | ,417 |
| | B* | 11,993 | 1 | 11,993 | 1,878 | ,172 |
| Sex * Skeletal element * Temperature | L* | 21,226 | 1 | 21,226 | ,338 | ,562 |
| | B* | ,475 | 1 | ,475 | ,074 | ,785 |
| Sex * Skeletal element * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Sex * Media * Temperature | L* | 36,569 | 2 | 18,284 | ,291 | ,748 |
| | B* | 18,255 | 2 | 9,128 | 1,429 | ,241 |
| Sex * Media * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Sex * Temperature * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Skeletal element * Media * Temperature | L* | 23,903 | 2 | 11,951 | ,190 | ,827 |
| | B* | ,167 | 2 | ,084 | ,013 | ,987 |
| Skeletal element * Media * Age group | L* | 4,637 | 1 | 4,637 | ,074 | ,786 |
| | B* | ,799 | 1 | ,799 | ,125 | ,724 |
| Skeletal element * Temperature * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Media * Temperature * Age Group | L* | 218,099 | 1 | 218,099 | 3,471 | ,063 |
| | B* | 5,489 | 1 | 5,489 | ,859 | ,355 |
| Sex * Skeletal element * Media * Temperature | L* | 26,832 | 1 | 26,832 | ,427 | ,514 |
| | B* | 2,424 | 1 | 2,424 | ,380 | ,538 |
| Sex * Skeletal element * Media * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Sex * Skeletal element * Temperature * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Sex * Media * Temperature * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Skeletal element * Media * Temperature * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Sex * Skeletal element * Media * Temperature * Age group | L* | ,000 | 0 | . | . | . |
| | B* | ,000 | 0 | . | . | . |
| Error | L* | 20675,242 | 329 | 62,843 | | |
| | B* | 2101,250 | 329 | 6,387 | | |
| Total | L* | 1038215,163 | 386 | | | |
| | B* | 12159,714 | 386 | | | |

R Squared = ,890 (Adjusted R Squared = ,872) b. R Squared = ,840 (Adjusted R Squared = ,815)

ESM-4 Colourimetric (calibrated) data learning and test set**Table s9. Raw data of the learning set (1/20)**

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 1 | Male | 66 | Humerus | Air | 450 | 30 | 75,61 | 76,36 | 66,57 | 28,02 | 2,29 | 5,69 |
| 2 | Male | 66 | Humerus | Air | 450 | 30 | 94,70 | 91,42 | 80,44 | 35,04 | 3,51 | 7,16 |
| 3 | Male | 66 | Humerus | Air | 500 | 10 | 71,92 | 72,33 | 62,41 | 26,57 | 2,52 | 5,99 |
| 4 | Male | 66 | Humerus | Air | 500 | 10 | 105,89 | 98,97 | 86,07 | 38,26 | 4,75 | 8,70 |
| 5 | Male | 66 | Humerus | Air | 500 | 20 | 120,74 | 113,23 | 99,82 | 44,15 | 4,73 | 8,90 |
| 6 | Male | 66 | Humerus | Air | 500 | 20 | 120,89 | 113,78 | 100,52 | 44,57 | 4,60 | 8,73 |
| 7 | Male | 66 | Humerus | Air | 500 | 30 | 119,97 | 114,79 | 102,35 | 45,01 | 3,94 | 8,02 |
| 8 | Male | 66 | Humerus | Air | 500 | 30 | 124,84 | 119,31 | 106,71 | 46,67 | 4,03 | 8,06 |
| 9 | Male | 66 | Humerus | Air | 500 | 30 | 118,33 | 112,03 | 99,21 | 44,08 | 4,34 | 8,42 |
| 10 | Male | 66 | Humerus | Air | 500 | 30 | 120,69 | 113,34 | 100,01 | 44,46 | 4,70 | 8,87 |
| 11 | Male | 66 | Humerus | Air | 600 | 10 | 93,75 | 94,16 | 84,18 | 35,68 | 2,29 | 5,89 |
| 12 | Male | 66 | Humerus | Air | 600 | 10 | 95,16 | 95,61 | 85,46 | 36,16 | 2,27 | 6,00 |
| 13 | Male | 66 | Humerus | Air | 600 | 20 | 98,72 | 98,56 | 88,35 | 37,91 | 2,48 | 6,12 |
| 14 | Male | 66 | Humerus | Air | 600 | 20 | 101,58 | 102,24 | 92,16 | 39,31 | 2,20 | 5,90 |
| 15 | Male | 66 | Humerus | Air | 600 | 30 | 100,94 | 102,22 | 93,04 | 38,82 | 2,06 | 5,26 |
| 16 | Male | 66 | Humerus | Air | 600 | 30 | 111,14 | 111,79 | 102,31 | 42,94 | 2,21 | 5,51 |
| 17 | Male | 66 | Humerus | Air | 700 | 10 | 139,71 | 148,21 | 142,14 | 56,94 | -0,11 | 2,55 |
| 18 | Male | 66 | Humerus | Air | 700 | 10 | 147,22 | 154,32 | 147,61 | 59,56 | 0,28 | 3,05 |
| 19 | Male | 66 | Humerus | Air | 700 | 20 | 224,74 | 234,63 | 228,68 | 89,25 | -0,55 | 2,53 |
| 20 | Male | 66 | Humerus | Air | 700 | 20 | 228,42 | 238,26 | 232,33 | 90,03 | -0,53 | 2,45 |
| 21 | Male | 66 | Humerus | Air | 700 | 30 | 244,47 | 250,81 | 242,62 | 94,54 | 0,19 | 3,98 |
| 22 | Male | 66 | Humerus | Air | 700 | 30 | 246,26 | 252,45 | 244,41 | 95,29 | 0,25 | 3,92 |
| 23 | Male | 66 | Humerus | Air | 800 | 10 | 233,75 | 142,44 | 235,76 | 91,59 | -0,35 | 2,94 |
| 24 | Male | 66 | Humerus | Air | 800 | 10 | 237,74 | 243,31 | 234,41 | 92,11 | 0,32 | 4,39 |
| 25 | Male | 66 | Humerus | Air | 800 | 20 | 249,01 | 255,11 | 246,71 | 96,10 | 0,22 | 4,06 |
| 26 | Male | 66 | Humerus | Air | 800 | 20 | 249,90 | 255,91 | 247,34 | 96,40 | 0,21 | 4,08 |
| 27 | Male | 66 | Humerus | Air | 900 | 10 | 246,65 | 252,29 | 243,78 | 95,47 | 0,35 | 4,15 |
| 28 | Male | 66 | Humerus | Air | 900 | 10 | 247,61 | 253,29 | 245,06 | 95,34 | 0,37 | 4,05 |
| 29 | Male | 66 | Humerus | Fat | 0 | 0 | 154,49 | 118,27 | 95,87 | 49,39 | 15,33 | 18,79 |
| 30 | Male | 66 | Humerus | Fat | 0 | 0 | 156,45 | 122,04 | 100,25 | 50,65 | 14,60 | 18,08 |
| 31 | Male | 66 | Humerus | Air | 450 | 30 | 56,26 | 60,73 | 52,23 | 19,86 | 0,97 | 4,42 |
| 32 | Male | 66 | Humerus | Air | 450 | 30 | 59,86 | 64,62 | 56,37 | 22,51 | 0,98 | 4,33 |
| 33 | Male | 66 | Humerus | Air | 500 | 10 | 102,45 | 100,25 | 89,25 | 38,21 | 3,09 | 6,77 |
| 34 | Male | 66 | Humerus | Air | 500 | 10 | 107,31 | 106,31 | 95,97 | 41,53 | 2,97 | 6,56 |
| 35 | Male | 66 | Humerus | Air | 500 | 20 | 68,79 | 72,39 | 63,54 | 26,00 | 1,23 | 4,73 |
| 36 | Male | 66 | Humerus | Air | 500 | 20 | 94,62 | 93,82 | 83,02 | 35,36 | 2,62 | 6,53 |
| 37 | Male | 66 | Humerus | Air | 500 | 30 | 129,90 | 125,75 | 113,79 | 49,07 | 3,57 | 7,53 |
| 38 | Male | 66 | Humerus | Air | 500 | 30 | 129,91 | 125,19 | 113,39 | 48,74 | 3,92 | 7,57 |
| 39 | Male | 66 | Humerus | Air | 600 | 10 | 103,56 | 104,04 | 94,23 | 39,70 | 2,23 | 5,70 |
| 40 | Male | 66 | Humerus | Air | 600 | 10 | 105,49 | 106,01 | 96,37 | 40,30 | 2,25 | 5,52 |
| 41 | Male | 66 | Humerus | Air | 600 | 20 | 110,73 | 111,54 | 102,08 | 43,08 | 2,21 | 5,50 |
| 42 | Male | 66 | Humerus | Air | 600 | 20 | 116,24 | 116,90 | 107,19 | 45,09 | 2,17 | 5,63 |

Table s9. Raw data of the learning set (2/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 43 | Male | 66 | Humerus | Air | 600 | 30 | 112,47 | 114,24 | 105,12 | 45,24 | 1,89 | 5,18 |
| 44 | Male | 66 | Humerus | Air | 600 | 30 | 117,07 | 118,51 | 109,02 | 45,93 | 1,89 | 5,39 |
| 45 | Male | 66 | Humerus | Air | 700 | 10 | 122,45 | 129,91 | 122,94 | 50,11 | 0,06 | 3,03 |
| 46 | Male | 66 | Humerus | Air | 700 | 10 | 141,09 | 147,71 | 140,38 | 58,40 | 0,20 | 3,26 |
| 47 | Male | 66 | Humerus | Air | 700 | 20 | 219,89 | 229,87 | 223,53 | 87,05 | -0,71 | 2,65 |
| 48 | Male | 66 | Humerus | Air | 700 | 20 | 222,15 | 231,00 | 223,94 | 87,49 | -0,52 | 2,99 |
| 49 | Male | 66 | Humerus | Air | 700 | 30 | 236,81 | 242,60 | 234,04 | 91,87 | 0,30 | 4,20 |
| 50 | Male | 66 | Humerus | Air | 700 | 30 | 239,90 | 245,94 | 237,71 | 92,99 | 0,32 | 4,05 |
| 51 | Male | 66 | Humerus | Air | 800 | 10 | 193,18 | 205,37 | 199,90 | 78,76 | -1,22 | 1,96 |
| 52 | Male | 66 | Humerus | Air | 800 | 10 | 218,45 | 224,05 | 215,72 | 85,79 | 0,40 | 4,08 |
| 53 | Male | 66 | Humerus | Air | 800 | 20 | 225,88 | 229,79 | 220,24 | 88,32 | 0,75 | 4,91 |
| 54 | Male | 66 | Humerus | Air | 800 | 20 | 234,55 | 239,30 | 229,96 | 90,41 | 0,50 | 4,71 |
| 55 | Male | 66 | Humerus | Air | 900 | 10 | 223,56 | 229,77 | 220,89 | 83,39 | 0,09 | 4,31 |
| 56 | Male | 66 | Humerus | Air | 900 | 10 | 225,99 | 232,12 | 223,65 | 87,83 | 0,24 | 4,27 |
| 57 | Male | 66 | Humerus | Fat | 450 | 30 | 53,24 | 59,60 | 51,77 | 19,71 | 0,51 | 4,00 |
| 58 | Male | 66 | Humerus | Fat | 450 | 30 | 54,82 | 61,32 | 53,50 | 20,60 | 0,36 | 3,78 |
| 59 | Male | 66 | Radius | Air | 0 | 0 | 120,70 | 99,85 | 77,75 | 40,41 | 9,11 | 16,25 |
| 60 | Male | 66 | Radius | Air | 0 | 0 | 122,40 | 101,56 | 79,28 | 40,80 | 8,95 | 16,28 |
| 61 | Male | 66 | Radius | Air | 0 | 0 | 169,48 | 138,86 | 112,44 | 56,92 | 11,61 | 19,27 |
| 62 | Male | 66 | Radius | Fat | 0 | 0 | 169,31 | 139,22 | 112,86 | 57,16 | 11,42 | 19,19 |
| 63 | Male | 66 | Radius | Air | 100 | 10 | 195,52 | 174,29 | 146,93 | 68,94 | 7,36 | 17,79 |
| 64 | Male | 66 | Radius | Air | 100 | 10 | 196,16 | 175,71 | 149,04 | 69,60 | 7,24 | 17,44 |
| 65 | Male | 66 | Radius | Air | 100 | 10 | 169,99 | 137,20 | 111,02 | 56,94 | 12,42 | 19,58 |
| 66 | Male | 66 | Radius | Air | 100 | 10 | 171,99 | 142,62 | 116,54 | 57,69 | 11,24 | 18,94 |
| 67 | Male | 66 | Radius | Air | 100 | 20 | 190,97 | 171,09 | 142,20 | 67,64 | 6,70 | 18,54 |
| 68 | Male | 66 | Radius | Air | 100 | 20 | 192,65 | 172,73 | 144,34 | 68,26 | 6,56 | 18,03 |
| 69 | Male | 66 | Radius | Air | 100 | 20 | 177,08 | 149,77 | 119,71 | 60,67 | 9,26 | 20,33 |
| 70 | Male | 66 | Radius | Air | 100 | 20 | 177,13 | 149,59 | 120,18 | 60,69 | 9,61 | 20,09 |
| 71 | Male | 66 | Radius | Air | 100 | 30 | 194,53 | 174,80 | 146,59 | 69,01 | 6,61 | 17,91 |
| 72 | Male | 66 | Radius | Air | 100 | 30 | 199,52 | 180,64 | 152,55 | 71,21 | 6,35 | 17,84 |
| 73 | Male | 66 | Radius | Air | 100 | 30 | 170,14 | 144,65 | 117,81 | 58,38 | 9,53 | 18,63 |
| 74 | Male | 66 | Radius | Air | 100 | 30 | 174,80 | 153,08 | 125,27 | 61,21 | 7,66 | 18,40 |
| 75 | Male | 66 | Radius | Air | 150 | 10 | 180,67 | 161,04 | 133,47 | 63,77 | 6,83 | 17,97 |
| 76 | Male | 66 | Radius | Air | 150 | 10 | 192,10 | 173,40 | 144,83 | 68,28 | 6,83 | 17,95 |
| 77 | Male | 66 | Radius | Air | 150 | 10 | 184,61 | 161,44 | 132,35 | 64,19 | 7,91 | 19,14 |
| 78 | Male | 66 | Radius | Air | 150 | 10 | 185,42 | 163,50 | 133,82 | 65,28 | 7,39 | 19,22 |
| 79 | Male | 66 | Radius | Air | 150 | 20 | 190,38 | 170,15 | 143,37 | 67,38 | 6,95 | 17,17 |
| 80 | Male | 66 | Radius | Air | 150 | 20 | 193,77 | 173,00 | 144,89 | 68,38 | 6,92 | 17,91 |
| 81 | Male | 66 | Radius | Air | 150 | 20 | 175,59 | 153,51 | 124,00 | 60,72 | 7,69 | 19,46 |
| 82 | Male | 66 | Radius | Air | 150 | 20 | 177,97 | 157,03 | 127,06 | 62,72 | 6,80 | 18,91 |
| 83 | Male | 66 | Radius | Air | 150 | 30 | 181,55 | 161,79 | 135,97 | 64,75 | 7,18 | 17,00 |
| 84 | Male | 66 | Radius | Air | 150 | 30 | 185,16 | 167,16 | 142,00 | 66,37 | 6,53 | 16,26 |

Table s9. Raw data of the learning set (3/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 85 | Male | 66 | Radius | Air | 150 | 30 | 171,58 | 152,66 | 123,95 | 60,44 | 6,49 | 18,58 |
| 86 | Male | 66 | Radius | Air | 150 | 30 | 173,72 | 155,14 | 126,78 | 61,85 | 6,30 | 18,15 |
| 87 | Male | 66 | Radius | Air | 200 | 10 | 174,19 | 156,07 | 130,14 | 62,53 | 6,57 | 16,91 |
| 88 | Male | 66 | Radius | Air | 200 | 10 | 180,26 | 162,19 | 135,95 | 64,03 | 6,36 | 16,77 |
| 89 | Male | 66 | Radius | Air | 200 | 10 | 169,96 | 155,64 | 125,33 | 60,65 | 3,91 | 17,75 |
| 90 | Male | 66 | Radius | Air | 200 | 10 | 176,61 | 163,21 | 134,31 | 64,09 | 4,03 | 17,46 |
| 91 | Male | 66 | Radius | Air | 200 | 20 | 165,55 | 146,43 | 121,34 | 58,12 | 7,34 | 16,80 |
| 92 | Male | 66 | Radius | Air | 200 | 20 | 171,17 | 153,05 | 128,05 | 61,13 | 6,66 | 16,36 |
| 93 | Male | 66 | Radius | Air | 200 | 20 | 135,53 | 130,73 | 108,08 | 45,82 | 3,67 | 15,52 |
| 94 | Male | 66 | Radius | Air | 200 | 20 | 148,12 | 143,64 | 120,83 | 49,51 | 3,37 | 15,69 |
| 95 | Male | 66 | Radius | Air | 200 | 30 | 171,11 | 147,30 | 120,11 | 58,29 | 8,90 | 18,61 |
| 96 | Male | 66 | Radius | Air | 200 | 30 | 173,66 | 150,92 | 123,50 | 60,14 | 8,40 | 18,61 |
| 97 | Male | 66 | Radius | Air | 200 | 30 | 175,65 | 159,01 | 129,10 | 62,32 | 5,40 | 18,42 |
| 98 | Male | 66 | Radius | Air | 200 | 30 | 179,92 | 166,72 | 139,55 | 64,46 | 4,36 | 16,52 |
| 99 | Male | 66 | Radius | Air | 250 | 10 | 181,47 | 154,62 | 124,38 | 61,04 | 10,15 | 21,07 |
| 100 | Male | 66 | Radius | Air | 250 | 10 | 184,93 | 157,70 | 126,72 | 63,04 | 9,93 | 21,47 |
| 101 | Male | 66 | Radius | Air | 250 | 10 | 177,45 | 162,93 | 135,22 | 63,77 | 4,76 | 17,05 |
| 102 | Male | 66 | Radius | Air | 250 | 10 | 184,67 | 171,08 | 143,43 | 66,60 | 4,30 | 16,54 |
| 103 | Male | 66 | Radius | Air | 250 | 20 | 164,64 | 129,21 | 99,66 | 54,46 | 13,69 | 22,31 |
| 104 | Male | 66 | Radius | Air | 250 | 20 | 172,46 | 137,87 | 108,18 | 56,17 | 13,14 | 21,72 |
| 105 | Male | 66 | Radius | Air | 250 | 20 | 142,11 | 111,04 | 83,89 | 47,75 | 13,32 | 21,66 |
| 106 | Male | 66 | Radius | Air | 250 | 20 | 139,95 | 108,43 | 82,37 | 38,12 | 11,61 | 17,09 |
| 107 | Male | 66 | Radius | Air | 250 | 30 | 141,41 | 102,38 | 77,33 | 43,66 | 16,93 | 21,65 |
| 108 | Male | 66 | Radius | Air | 250 | 30 | 145,44 | 105,90 | 80,09 | 45,91 | 17,10 | 22,50 |
| 109 | Male | 66 | Radius | Air | 250 | 30 | 136,45 | 98,18 | 74,43 | 40,66 | 16,42 | 20,17 |
| 110 | Male | 66 | Radius | Air | 250 | 30 | 143,57 | 102,37 | 76,46 | 43,28 | 17,39 | 22,06 |
| 111 | Male | 66 | Radius | Air | 300 | 10 | 156,54 | 115,50 | 87,11 | 47,50 | 16,81 | 22,25 |
| 112 | Male | 66 | Radius | Air | 300 | 10 | 158,20 | 119,22 | 90,55 | 47,08 | 15,96 | 21,68 |
| 113 | Male | 66 | Radius | Air | 300 | 10 | 150,02 | 110,16 | 84,22 | 46,49 | 16,74 | 21,70 |
| 114 | Male | 66 | Radius | Air | 300 | 10 | 167,30 | 125,33 | 95,11 | 52,25 | 16,32 | 23,59 |
| 115 | Male | 66 | Radius | Air | 300 | 20 | 106,70 | 86,65 | 69,62 | 34,15 | 10,04 | 13,43 |
| 116 | Male | 66 | Radius | Air | 300 | 20 | 111,25 | 90,73 | 74,38 | 35,92 | 10,44 | 13,28 |
| 117 | Male | 66 | Radius | Air | 300 | 20 | 61,84 | 64,51 | 56,21 | 22,73 | 1,67 | 4,50 |
| 118 | Male | 66 | Radius | Air | 300 | 20 | 66,57 | 65,45 | 56,24 | 24,65 | 4,06 | 6,52 |
| 119 | Male | 66 | Radius | Air | 300 | 30 | 70,82 | 64,20 | 52,81 | 23,50 | 5,21 | 7,93 |
| 120 | Male | 66 | Radius | Air | 300 | 30 | 72,49 | 66,24 | 54,94 | 24,20 | 5,29 | 8,10 |
| 121 | Male | 66 | Radius | Air | 300 | 30 | 51,03 | 57,60 | 50,15 | 19,39 | 0,43 | 3,49 |
| 122 | Male | 66 | Radius | Air | 300 | 30 | 61,50 | 67,43 | 60,00 | 23,42 | 0,61 | 3,54 |
| 123 | Male | 66 | Radius | Air | 350 | 10 | 73,22 | 68,11 | 58,34 | 25,24 | 5,01 | 6,94 |
| 124 | Male | 66 | Radius | Air | 350 | 10 | 77,56 | 70,49 | 58,77 | 26,22 | 5,36 | 8,28 |
| 125 | Male | 66 | Radius | Air | 350 | 10 | 59,94 | 62,66 | 53,91 | 21,78 | 1,88 | 6,13 |
| 126 | Male | 66 | Radius | Air | 350 | 10 | 61,05 | 61,44 | 52,48 | 21,37 | 2,73 | 5,50 |
| 127 | Male | 66 | Radius | Air | 350 | 20 | 53,18 | 60,13 | 52,77 | 19,94 | 0,15 | 3,35 |

Table s9. Raw data of the learning set (4/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 128 | Male | 66 | Radius | Air | 350 | 20 | 53,76 | 59,95 | 52,59 | 20,07 | 0,54 | 3,57 |
| 129 | Male | 66 | Radius | Air | 350 | 20 | 66,62 | 73,89 | 66,38 | 26,61 | -0,02 | 20,27 |
| 130 | Male | 66 | Radius | Air | 350 | 20 | 68,01 | 74,87 | 67,13 | 27,06 | 0,14 | 3,64 |
| 131 | Male | 66 | Radius | Air | 350 | 30 | 49,48 | 55,17 | 47,08 | 17,98 | 0,58 | 3,89 |
| 132 | Male | 66 | Radius | Air | 350 | 30 | 53,63 | 59,84 | 52,17 | 19,36 | 0,39 | 3,74 |
| 133 | Male | 66 | Radius | Air | 350 | 30 | 63,73 | 71,59 | 64,29 | 25,35 | -0,16 | 3,23 |
| 134 | Male | 66 | Radius | Air | 350 | 30 | 78,81 | 87,16 | 79,98 | 32,21 | -0,35 | 3,07 |
| 135 | Male | 66 | Radius | Air | 400 | 10 | 54,41 | 61,89 | 54,55 | 20,59 | -0,04 | 3,34 |
| 136 | Male | 66 | Radius | Air | 400 | 10 | 59,25 | 66,38 | 58,79 | 23,13 | 0,06 | 3,54 |
| 137 | Male | 66 | Radius | Air | 400 | 10 | 63,69 | 71,24 | 63,57 | 25,17 | -0,11 | 3,49 |
| 138 | Male | 66 | Radius | Air | 400 | 10 | 65,72 | 73,84 | 66,29 | 26,56 | -0,13 | 3,30 |
| 139 | Male | 66 | Radius | Air | 400 | 20 | 46,13 | 53,05 | 45,37 | 16,57 | 0,06 | 3,44 |
| 140 | Male | 66 | Radius | Air | 400 | 20 | 50,21 | 57,18 | 49,60 | 19,36 | 0,17 | 3,45 |
| 141 | Male | 66 | Radius | Air | 400 | 20 | 67,85 | 76,00 | 68,56 | 27,23 | -0,33 | 3,28 |
| 142 | Male | 66 | Radius | Air | 400 | 20 | 69,38 | 77,57 | 70,08 | 27,70 | -0,25 | 3,23 |
| 143 | Male | 66 | Radius | Fat | 100 | 10 | 169,58 | 148,65 | 123,42 | 58,94 | 7,90 | 16,97 |
| 144 | Male | 66 | Radius | Fat | 100 | 10 | 173,50 | 150,60 | 124,04 | 59,62 | 8,55 | 17,96 |
| 145 | Male | 66 | Radius | Fat | 100 | 10 | 186,15 | 162,06 | 134,68 | 64,80 | 8,67 | 18,43 |
| 146 | Male | 66 | Radius | Fat | 100 | 10 | 190,58 | 167,71 | 141,02 | 66,96 | 8,15 | 17,77 |
| 147 | Male | 66 | Radius | Fat | 100 | 20 | 192,75 | 168,70 | 137,50 | 67,42 | 7,95 | 20,31 |
| 148 | Male | 66 | Radius | Fat | 100 | 20 | 199,09 | 175,53 | 144,41 | 69,08 | 6,53 | 19,72 |
| 149 | Male | 66 | Radius | Fat | 100 | 20 | 178,17 | 154,02 | 128,06 | 61,66 | 8,67 | 17,63 |
| 150 | Male | 66 | Radius | Fat | 100 | 20 | 184,08 | 162,31 | 136,70 | 64,31 | 8,06 | 16,09 |
| 151 | Male | 66 | Radius | Fat | 100 | 30 | 182,17 | 159,91 | 131,86 | 64,54 | 7,64 | 18,31 |
| 152 | Male | 66 | Radius | Fat | 100 | 30 | 183,83 | 162,96 | 135,40 | 64,43 | 7,27 | 17,87 |
| 153 | Male | 66 | Radius | Fat | 100 | 30 | 180,25 | 164,27 | 139,39 | 63,91 | 5,73 | 15,52 |
| 154 | Male | 66 | Radius | Fat | 100 | 30 | 181,72 | 160,54 | 132,73 | 64,53 | 7,22 | 18,22 |
| 155 | Male | 66 | Radius | Fat | 150 | 10 | 170,75 | 151,30 | 125,23 | 59,84 | 7,14 | 17,21 |
| 156 | Male | 66 | Radius | Fat | 150 | 10 | 170,86 | 151,20 | 124,99 | 60,72 | 7,11 | 17,33 |
| 157 | Male | 66 | Radius | Fat | 150 | 10 | 174,84 | 160,31 | 136,45 | 63,20 | 5,40 | 15,13 |
| 158 | Male | 66 | Radius | Fat | 150 | 10 | 191,47 | 173,56 | 147,18 | 68,90 | 5,95 | 16,59 |
| 159 | Male | 66 | Radius | Fat | 150 | 20 | 160,69 | 142,40 | 116,35 | 56,94 | 6,83 | 17,33 |
| 160 | Male | 66 | Radius | Fat | 150 | 20 | 162,46 | 143,98 | 117,65 | 57,38 | 6,88 | 17,41 |
| 161 | Male | 66 | Radius | Fat | 150 | 20 | 186,58 | 168,08 | 140,90 | 66,72 | 6,40 | 17,48 |
| 162 | Male | 66 | Radius | Fat | 150 | 20 | 187,57 | 168,01 | 139,85 | 66,02 | 6,62 | 17,62 |
| 163 | Male | 66 | Radius | Fat | 150 | 30 | 145,95 | 128,10 | 102,62 | 52,48 | 6,69 | 17,15 |
| 164 | Male | 66 | Radius | Fat | 150 | 30 | 148,76 | 130,65 | 104,74 | 52,68 | 6,96 | 17,15 |
| 165 | Male | 66 | Radius | Fat | 150 | 30 | 177,20 | 162,17 | 137,84 | 64,02 | 5,60 | 15,59 |
| 166 | Male | 66 | Radius | Fat | 150 | 30 | 178,71 | 164,05 | 139,91 | 65,04 | 5,27 | 15,18 |
| 167 | Male | 66 | Radius | Fat | 200 | 10 | 174,51 | 153,36 | 125,85 | 61,01 | 7,49 | 18,04 |
| 168 | Male | 66 | Radius | Fat | 200 | 10 | 196,84 | 175,01 | 143,28 | 69,55 | 6,80 | 19,95 |
| 169 | Male | 66 | Radius | Fat | 200 | 10 | 187,48 | 172,17 | 146,83 | 67,98 | 5,31 | 15,87 |

Table s9. Raw data of the learning set (5/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 170 | Male | 66 | Radius | Fat | 200 | 10 | 193,82 | 176,62 | 149,20 | 69,93 | 5,60 | 16,54 |
| 171 | Male | 66 | Radius | Fat | 200 | 20 | 169,80 | 146,80 | 119,37 | 59,28 | 8,24 | 18,40 |
| 172 | Male | 66 | Radius | Fat | 200 | 20 | 174,71 | 152,61 | 125,20 | 60,59 | 8,01 | 18,25 |
| 173 | Male | 66 | Radius | Fat | 200 | 20 | 186,11 | 169,28 | 142,76 | 66,94 | 5,77 | 16,71 |
| 174 | Male | 66 | Radius | Fat | 200 | 20 | 191,74 | 176,61 | 151,39 | 69,16 | 5,13 | 15,53 |
| 175 | Male | 66 | Radius | Fat | 200 | 30 | 174,98 | 148,82 | 119,59 | 60,85 | 9,13 | 19,83 |
| 176 | Male | 66 | Radius | Fat | 200 | 30 | 179,40 | 155,82 | 127,18 | 62,43 | 8,21 | 18,96 |
| 177 | Male | 66 | Radius | Fat | 200 | 30 | 189,43 | 170,92 | 143,47 | 68,15 | 6,34 | 17,60 |
| 178 | Male | 66 | Radius | Fat | 200 | 30 | 192,10 | 175,28 | 149,00 | 68,71 | 5,78 | 16,46 |
| 179 | Male | 66 | Radius | Fat | 250 | 10 | 179,57 | 157,95 | 129,03 | 63,55 | 7,49 | 18,95 |
| 180 | Male | 66 | Radius | Fat | 250 | 10 | 183,04 | 160,65 | 132,01 | 64,21 | 7,68 | 18,67 |
| 181 | Male | 66 | Radius | Fat | 250 | 10 | 200,83 | 183,65 | 156,14 | 71,54 | 5,64 | 17,00 |
| 182 | Male | 66 | Radius | Fat | 250 | 10 | 201,01 | 183,73 | 156,33 | 72,10 | 5,45 | 16,74 |
| 183 | Male | 66 | Radius | Fat | 250 | 20 | 162,00 | 136,88 | 107,92 | 55,47 | 9,09 | 19,83 |
| 184 | Male | 66 | Radius | Fat | 250 | 20 | 166,62 | 139,94 | 110,71 | 56,43 | 9,70 | 20,16 |
| 185 | Male | 66 | Radius | Fat | 250 | 20 | 184,59 | 167,91 | 140,84 | 68,36 | 5,48 | 17,42 |
| 186 | Male | 66 | Radius | Fat | 250 | 20 | 188,44 | 172,80 | 145,28 | 67,83 | 5,09 | 16,87 |
| 187 | Male | 66 | Radius | Fat | 250 | 30 | 164,51 | 125,30 | 93,22 | 52,40 | 14,89 | 24,17 |
| 188 | Male | 66 | Radius | Fat | 250 | 30 | 165,67 | 127,39 | 95,23 | 53,33 | 14,67 | 24,01 |
| 189 | Male | 66 | Radius | Fat | 250 | 30 | 177,62 | 142,49 | 109,44 | 58,41 | 12,75 | 23,65 |
| 190 | Male | 66 | Radius | Fat | 250 | 30 | 178,64 | 147,26 | 114,96 | 59,52 | 11,03 | 22,30 |
| 191 | Male | 66 | Radius | Fat | 300 | 10 | 177,29 | 152,59 | 122,86 | 60,96 | 8,59 | 19,74 |
| 192 | Male | 66 | Radius | Fat | 300 | 10 | 178,29 | 153,01 | 122,97 | 61,40 | 8,71 | 19,99 |
| 193 | Male | 66 | Radius | Fat | 300 | 10 | 177,31 | 139,41 | 106,70 | 57,08 | 13,91 | 23,91 |
| 194 | Male | 66 | Radius | Fat | 300 | 10 | 181,66 | 143,81 | 110,61 | 59,22 | 13,60 | 23,91 |
| 195 | Male | 66 | Radius | Fat | 300 | 20 | 129,39 | 98,05 | 76,00 | 40,36 | 13,87 | 18,24 |
| 196 | Male | 66 | Radius | Fat | 300 | 20 | 125,33 | 93,98 | 72,58 | 39,01 | 14,10 | 18,10 |
| 197 | Male | 66 | Radius | Fat | 300 | 20 | 75,99 | 71,61 | 59,91 | 26,60 | 4,05 | 7,76 |
| 198 | Male | 66 | Radius | Fat | 300 | 20 | 78,93 | 74,76 | 62,77 | 26,73 | 4,00 | 7,96 |
| 199 | Male | 66 | Radius | Fat | 300 | 30 | 63,27 | 63,44 | 53,20 | 22,41 | 2,28 | 6,01 |
| 200 | Male | 66 | Radius | Fat | 300 | 30 | 66,24 | 65,61 | 54,75 | 23,74 | 2,76 | 6,80 |
| 201 | Male | 66 | Radius | Fat | 300 | 30 | 57,12 | 62,63 | 54,69 | 21,19 | 0,74 | 3,96 |
| 202 | Male | 66 | Radius | Fat | 300 | 30 | 58,25 | 64,71 | 57,13 | 21,83 | 0,45 | 3,75 |
| 203 | Male | 66 | Radius | Fat | 350 | 10 | 104,91 | 90,86 | 73,86 | 35,99 | 7,29 | 12,49 |
| 204 | Male | 66 | Radius | Fat | 350 | 10 | 93,64 | 79,74 | 65,57 | 31,04 | 7,91 | 10,90 |
| 205 | Male | 66 | Radius | Fat | 350 | 10 | 100,94 | 78,61 | 61,20 | 31,45 | 11,13 | 14,42 |
| 206 | Male | 66 | Radius | Fat | 350 | 10 | 101,70 | 79,76 | 62,42 | 32,25 | 11,21 | 14,55 |
| 207 | Male | 66 | Radius | Fat | 350 | 20 | 74,05 | 73,83 | 62,27 | 27,15 | 2,44 | 7,15 |
| 208 | Male | 66 | Radius | Fat | 350 | 20 | 86,39 | 82,08 | 68,20 | 30,91 | 3,77 | 8,94 |
| 209 | Male | 66 | Radius | Fat | 350 | 20 | 59,50 | 64,06 | 55,39 | 22,04 | 0,88 | 4,49 |
| 210 | Male | 66 | Radius | Fat | 350 | 20 | 59,95 | 63,56 | 54,57 | 22,76 | 1,56 | 5,34 |
| 211 | Male | 66 | Radius | Fat | 350 | 30 | 54,06 | 61,06 | 53,88 | 20,48 | 0,19 | 3,16 |
| 212 | Male | 66 | Radius | Fat | 350 | 30 | 56,32 | 63,17 | 55,90 | 21,70 | 0,32 | 3,28 |

Table s9. Raw data of the learning set (6/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 213 | Male | 66 | Radius | Fat | 350 | 30 | 60,04 | 64,18 | 55,28 | 22,56 | 1,07 | 4,78 |
| 214 | Male | 66 | Radius | Fat | 350 | 30 | 60,19 | 64,10 | 55,39 | 21,60 | 1,20 | 4,83 |
| 215 | Male | 66 | Radius | Fat | 400 | 10 | 61,25 | 63,57 | 54,79 | 21,74 | 1,84 | 5,01 |
| 216 | Male | 66 | Radius | Fat | 400 | 10 | 64,81 | 64,59 | 55,04 | 22,62 | 2,63 | 5,69 |
| 217 | Male | 66 | Radius | Fat | 400 | 10 | 59,38 | 64,10 | 55,59 | 22,27 | 0,87 | 4,41 |
| 218 | Male | 66 | Radius | Fat | 400 | 10 | 59,70 | 63,53 | 54,51 | 22,28 | 1,18 | 4,89 |
| 219 | Male | 66 | Radius | Fat | 400 | 20 | 51,70 | 58,34 | 51,20 | 19,13 | 0,44 | 3,26 |
| 220 | Male | 66 | Radius | Fat | 400 | 20 | 53,96 | 60,26 | 52,79 | 20,10 | 0,58 | 3,61 |
| 221 | Male | 66 | Radius | Fat | 400 | 20 | 56,36 | 63,64 | 56,59 | 21,74 | 0,07 | 3,17 |
| 222 | Male | 66 | Radius | Fat | 400 | 20 | 57,04 | 63,85 | 56,60 | 22,14 | 0,24 | 3,33 |
| 223 | Male | 66 | Radius | Air | 450 | 30 | 48,35 | 54,09 | 45,99 | 18,28 | 0,56 | 3,99 |
| 224 | Male | 66 | Radius | Air | 450 | 30 | 53,41 | 60,23 | 52,67 | 19,98 | 0,21 | 3,54 |
| 225 | Male | 66 | Radius | Air | 500 | 10 | 64,88 | 68,81 | 60,06 | 23,81 | 0,97 | 4,47 |
| 226 | Male | 66 | Radius | Air | 500 | 10 | 90,44 | 90,27 | 80,08 | 34,40 | 2,58 | 6,15 |
| 227 | Male | 66 | Radius | Air | 500 | 20 | 124,21 | 119,87 | 108,37 | 46,60 | 3,84 | 7,40 |
| 228 | Male | 66 | Radius | Air | 500 | 20 | 122,10 | 120,64 | 110,09 | 46,63 | 2,87 | 6,42 |
| 229 | Male | 66 | Radius | Air | 500 | 30 | 121,06 | 118,22 | 106,99 | 46,29 | 3,31 | 7,14 |
| 230 | Male | 66 | Radius | Air | 500 | 30 | 121,77 | 117,64 | 106,32 | 46,14 | 3,76 | 7,29 |
| 231 | Male | 66 | Radius | Air | 600 | 10 | 101,18 | 102,20 | 92,80 | 38,37 | 2,14 | 5,44 |
| 232 | Male | 66 | Radius | Air | 600 | 10 | 107,07 | 107,22 | 96,98 | 40,52 | 2,37 | 6,03 |
| 233 | Male | 66 | Radius | Air | 600 | 20 | 105,96 | 107,82 | 98,86 | 41,60 | 1,96 | 5,10 |
| 234 | Male | 66 | Radius | Air | 600 | 20 | 106,09 | 107,71 | 98,59 | 40,85 | 1,90 | 5,13 |
| 235 | Male | 66 | Radius | Air | 600 | 30 | 110,42 | 112,30 | 103,13 | 43,28 | 1,80 | 5,16 |
| 236 | Male | 66 | Radius | Air | 600 | 30 | 118,54 | 119,23 | 109,30 | 44,42 | 2,16 | 5,75 |
| 237 | Male | 66 | Radius | Air | 700 | 10 | 98,35 | 103,23 | 95,47 | 37,74 | 0,87 | 3,77 |
| 238 | Male | 66 | Radius | Air | 700 | 10 | 108,05 | 113,06 | 105,04 | 41,86 | 0,95 | 4,22 |
| 239 | Male | 66 | Radius | Air | 700 | 20 | 191,33 | 200,94 | 195,47 | 76,36 | -0,46 | 2,14 |
| 240 | Male | 66 | Radius | Air | 700 | 20 | 198,14 | 207,04 | 200,88 | 78,70 | -0,35 | 2,67 |
| 241 | Male | 66 | Radius | Air | 700 | 30 | 241,64 | 248,42 | 240,65 | 93,27 | 0,13 | 3,63 |
| 242 | Male | 66 | Radius | Air | 700 | 30 | 246,72 | 254,12 | 246,64 | 96,27 | -0,02 | 3,47 |
| 243 | Male | 66 | Radius | Air | 800 | 10 | 221,64 | 227,61 | 219,11 | 85,33 | 0,39 | 4,17 |
| 244 | Male | 66 | Radius | Air | 800 | 10 | 223,22 | 229,33 | 221,29 | 87,11 | 0,28 | 3,93 |
| 245 | Male | 66 | Radius | Air | 800 | 20 | 241,48 | 247,37 | 238,58 | 93,04 | 0,21 | 4,34 |
| 246 | Male | 66 | Radius | Air | 800 | 20 | 243,26 | 247,57 | 237,34 | 93,78 | 0,57 | 5,37 |
| 247 | Male | 66 | Radius | Air | 900 | 10 | 241,16 | 247,30 | 239,08 | 94,75 | 0,30 | 4,08 |
| 248 | Male | 66 | Radius | Air | 900 | 10 | 247,35 | 253,53 | 245,21 | 96,85 | 0,21 | 4,11 |
| 249 | Male | 66 | Radius | Fat | 450 | 30 | 72,91 | 79,68 | 72,04 | 29,09 | 0,30 | 3,53 |
| 250 | Male | 66 | Radius | Fat | 450 | 30 | 76,24 | 84,44 | 77,57 | 30,51 | -0,09 | 3,02 |
| 251 | Male | 66 | Ulna | Air | 0 | 0 | 156,85 | 137,39 | 112,25 | 54,89 | 7,38 | 16,88 |
| 252 | Male | 66 | Ulna | Fat | 0 | 0 | 156,61 | 134,50 | 108,75 | 54,20 | 8,72 | 18,10 |
| 253 | Male | 66 | Ulna | Air | 0 | 0 | 182,44 | 152,41 | 126,16 | 61,94 | 11,24 | 18,93 |
| 254 | Male | 66 | Ulna | Fat | 0 | 0 | 188,47 | 158,64 | 132,10 | 65,22 | 10,44 | 17,52 |
| 255 | Male | 66 | Ulna | Air | 100 | 10 | 135,91 | 119,12 | 94,64 | 47,61 | 7,59 | 17,15 |

Table s9. Raw data of the learning set (7/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 256 | Male | 66 | Ulna | Air | 100 | 10 | 136,36 | 117,23 | 92,53 | 46,82 | 7,68 | 17,13 |
| 257 | Male | 66 | Ulna | Air | 100 | 10 | 186,50 | 156,57 | 127,35 | 62,73 | 10,70 | 20,41 |
| 258 | Male | 66 | Ulna | Air | 100 | 10 | 186,66 | 159,51 | 130,94 | 63,48 | 9,79 | 19,59 |
| 259 | Male | 66 | Ulna | Air | 100 | 20 | 148,56 | 131,39 | 108,60 | 53,54 | 9,91 | 15,54 |
| 260 | Male | 66 | Ulna | Air | 100 | 20 | 148,71 | 129,05 | 105,04 | 51,33 | 7,83 | 16,55 |
| 261 | Male | 66 | Ulna | Air | 100 | 20 | 194,14 | 166,38 | 136,29 | 66,51 | 9,33 | 19,94 |
| 262 | Male | 66 | Ulna | Air | 100 | 20 | 194,67 | 169,11 | 139,17 | 67,77 | 8,59 | 19,71 |
| 263 | Male | 66 | Ulna | Air | 100 | 30 | 146,19 | 128,30 | 105,02 | 52,90 | 7,05 | 16,04 |
| 264 | Male | 66 | Ulna | Air | 100 | 30 | 155,71 | 138,35 | 114,38 | 56,26 | 6,48 | 15,83 |
| 265 | Male | 66 | Ulna | Air | 100 | 30 | 177,87 | 154,57 | 126,17 | 62,56 | 7,86 | 18,50 |
| 266 | Male | 66 | Ulna | Air | 100 | 30 | 182,35 | 157,78 | 130,59 | 63,30 | 8,84 | 18,42 |
| 267 | Male | 66 | Ulna | Air | 150 | 10 | 159,32 | 140,38 | 116,17 | 56,35 | 7,32 | 16,29 |
| 268 | Male | 66 | Ulna | Air | 150 | 10 | 161,89 | 143,57 | 119,10 | 57,74 | 6,90 | 16,32 |
| 269 | Male | 66 | Ulna | Air | 150 | 10 | 174,27 | 153,28 | 125,27 | 61,33 | 7,33 | 18,44 |
| 270 | Male | 66 | Ulna | Air | 150 | 10 | 174,72 | 154,58 | 126,14 | 61,87 | 6,90 | 18,32 |
| 271 | Male | 66 | Ulna | Air | 150 | 20 | 134,52 | 134,09 | 109,08 | 54,30 | 7,43 | 16,84 |
| 272 | Male | 66 | Ulna | Air | 150 | 20 | 159,98 | 142,34 | 118,02 | 57,03 | 6,71 | 16,09 |
| 273 | Male | 66 | Ulna | Air | 150 | 20 | 177,03 | 156,20 | 127,63 | 62,08 | 7,26 | 18,71 |
| 274 | Male | 66 | Ulna | Air | 150 | 20 | 178,02 | 157,86 | 129,55 | 62,95 | 7,04 | 18,59 |
| 275 | Male | 66 | Ulna | Air | 150 | 30 | 153,45 | 138,12 | 114,84 | 56,48 | 5,81 | 15,18 |
| 276 | Male | 66 | Ulna | Air | 150 | 30 | 155,81 | 139,90 | 116,28 | 55,95 | 6,28 | 15,73 |
| 277 | Male | 66 | Ulna | Air | 150 | 30 | 163,26 | 143,69 | 115,69 | 57,34 | 6,96 | 18,31 |
| 278 | Male | 66 | Ulna | Air | 150 | 30 | 163,32 | 144,08 | 116,50 | 57,48 | 6,80 | 17,96 |
| 279 | Male | 66 | Ulna | Air | 200 | 10 | 161,01 | 142,88 | 116,71 | 56,71 | 6,76 | 17,38 |
| 280 | Male | 66 | Ulna | Air | 200 | 10 | 163,27 | 143,93 | 116,77 | 57,37 | 6,89 | 17,68 |
| 281 | Male | 66 | Ulna | Air | 200 | 10 | 164,38 | 150,28 | 121,73 | 58,81 | 4,53 | 17,81 |
| 282 | Male | 66 | Ulna | Air | 200 | 10 | 166,68 | 152,09 | 122,40 | 59,96 | 4,62 | 18,39 |
| 283 | Male | 66 | Ulna | Air | 200 | 20 | 168,50 | 149,25 | 122,50 | 60,09 | 6,76 | 17,37 |
| 284 | Male | 66 | Ulna | Air | 200 | 20 | 169,29 | 150,49 | 124,35 | 60,08 | 6,80 | 17,07 |
| 285 | Male | 66 | Ulna | Air | 200 | 20 | 179,56 | 165,34 | 136,64 | 61,68 | 4,38 | 17,47 |
| 286 | Male | 66 | Ulna | Air | 200 | 20 | 180,27 | 167,10 | 139,51 | 65,74 | 4,23 | 16,85 |
| 287 | Male | 66 | Ulna | Air | 200 | 30 | 168,33 | 144,18 | 115,15 | 59,15 | 8,08 | 19,26 |
| 288 | Male | 66 | Ulna | Air | 200 | 30 | 171,48 | 146,02 | 116,00 | 58,52 | 9,02 | 20,15 |
| 289 | Male | 66 | Ulna | Air | 200 | 30 | 162,60 | 143,41 | 114,94 | 57,75 | 6,98 | 18,90 |
| 290 | Male | 66 | Ulna | Air | 200 | 30 | 176,97 | 159,35 | 130,95 | 62,65 | 5,91 | 17,91 |
| 291 | Male | 66 | Ulna | Air | 250 | 10 | 168,80 | 159,11 | 132,78 | 59,71 | 3,10 | 16,07 |
| 292 | Male | 66 | Ulna | Air | 250 | 10 | 170,56 | 160,96 | 135,44 | 61,39 | 3,29 | 15,52 |
| 293 | Male | 66 | Ulna | Air | 250 | 20 | 157,12 | 124,61 | 93,77 | 52,31 | 12,38 | 23,04 |
| 294 | Male | 66 | Ulna | Air | 250 | 20 | 158,16 | 126,23 | 94,94 | 52,92 | 12,06 | 22,71 |
| 295 | Male | 66 | Ulna | Air | 250 | 20 | 150,02 | 114,27 | 84,52 | 48,06 | 14,52 | 23,26 |
| 296 | Male | 66 | Ulna | Air | 250 | 20 | 152,35 | 114,41 | 84,53 | 47,25 | 15,34 | 23,22 |
| 297 | Male | 66 | Ulna | Air | 250 | 30 | 134,78 | 97,35 | 74,12 | 40,92 | 16,87 | 20,48 |
| 298 | Male | 66 | Ulna | Air | 250 | 30 | 139,38 | 100,67 | 77,44 | 43,79 | 17,34 | 20,96 |

Table s9. Raw data of the learning set (8/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 299 | Male | 66 | Ulna | Air | 250 | 30 | 112,65 | 80,94 | 61,83 | 33,38 | 15,02 | 17,29 |
| 300 | Male | 66 | Ulna | Air | 250 | 30 | 122,41 | 85,67 | 64,05 | 35,22 | 16,26 | 18,97 |
| 301 | Male | 66 | Ulna | Air | 300 | 10 | 152,59 | 109,59 | 79,12 | 46,78 | 17,59 | 25,10 |
| 302 | Male | 66 | Ulna | Air | 300 | 10 | 159,93 | 118,86 | 86,85 | 51,39 | 15,47 | 24,91 |
| 303 | Male | 66 | Ulna | Air | 300 | 10 | 138,12 | 103,70 | 76,35 | 42,73 | 14,28 | 21,32 |
| 304 | Male | 66 | Ulna | Air | 300 | 10 | 117,10 | 83,48 | 63,04 | 35,40 | 15,79 | 18,50 |
| 305 | Male | 66 | Ulna | Air | 300 | 20 | 80,38 | 69,03 | 56,54 | 26,54 | 7,54 | 9,96 |
| 306 | Male | 66 | Ulna | Air | 300 | 20 | 75,94 | 67,49 | 56,39 | 26,68 | 6,44 | 8,70 |
| 307 | Male | 66 | Ulna | Air | 300 | 20 | 51,87 | 57,73 | 50,08 | 19,72 | 0,73 | 3,80 |
| 308 | Male | 66 | Ulna | Air | 300 | 20 | 54,66 | 59,80 | 52,01 | 20,64 | 1,01 | 3,89 |
| 309 | Male | 66 | Ulna | Air | 300 | 30 | 58,97 | 59,75 | 50,93 | 20,81 | 2,71 | 5,43 |
| 310 | Male | 66 | Ulna | Air | 300 | 30 | 60,28 | 60,25 | 51,05 | 21,61 | 3,00 | 5,88 |
| 311 | Male | 66 | Ulna | Air | 300 | 30 | 56,34 | 62,14 | 54,60 | 21,57 | 0,69 | 3,70 |
| 312 | Male | 66 | Ulna | Air | 300 | 30 | 61,57 | 67,03 | 59,28 | 23,40 | 0,68 | 3,84 |
| 313 | Male | 66 | Ulna | Air | 350 | 10 | 86,34 | 75,31 | 61,92 | 29,69 | 6,72 | 9,95 |
| 314 | Male | 66 | Ulna | Air | 350 | 10 | 86,57 | 76,14 | 62,90 | 29,81 | 6,43 | 9,77 |
| 315 | Male | 66 | Ulna | Air | 350 | 10 | 56,19 | 60,16 | 51,98 | 20,38 | 1,33 | 4,26 |
| 316 | Male | 66 | Ulna | Air | 350 | 10 | 61,65 | 63,37 | 54,79 | 22,20 | 2,21 | 4,98 |
| 317 | Male | 66 | Ulna | Air | 350 | 20 | 51,04 | 58,08 | 50,69 | 19,30 | 0,10 | 3,34 |
| 318 | Male | 66 | Ulna | Air | 350 | 20 | 56,68 | 64,07 | 56,81 | 20,85 | 0,08 | 3,39 |
| 319 | Male | 66 | Ulna | Air | 350 | 20 | 61,93 | 69,14 | 61,41 | 24,32 | -0,06 | 3,55 |
| 320 | Male | 66 | Ulna | Air | 350 | 20 | 72,46 | 79,57 | 71,79 | 29,12 | 0,11 | 3,61 |
| 321 | Male | 66 | Ulna | Air | 350 | 30 | 49,65 | 56,17 | 48,37 | 18,19 | 0,27 | 3,74 |
| 322 | Male | 66 | Ulna | Air | 350 | 30 | 51,05 | 57,64 | 49,70 | 19,02 | 0,14 | 3,80 |
| 323 | Male | 66 | Ulna | Air | 350 | 30 | 71,15 | 78,75 | 71,28 | 28,41 | -0,13 | 3,38 |
| 324 | Male | 66 | Ulna | Air | 350 | 30 | 72,70 | 80,69 | 73,43 | 29,37 | -0,21 | 3,14 |
| 325 | Male | 66 | Ulna | Air | 400 | 10 | 52,87 | 59,71 | 51,94 | 19,76 | 0,13 | 3,65 |
| 326 | Male | 66 | Ulna | Air | 400 | 10 | 56,55 | 64,03 | 56,52 | 21,96 | -0,11 | 3,40 |
| 327 | Male | 66 | Ulna | Air | 400 | 10 | 64,02 | 71,36 | 63,76 | 25,70 | -0,04 | 3,43 |
| 328 | Male | 66 | Ulna | Air | 400 | 10 | 65,14 | 72,55 | 64,78 | 25,90 | -0,11 | 3,56 |
| 329 | Male | 66 | Ulna | Air | 400 | 20 | 53,37 | 60,09 | 52,31 | 17,53 | 0,08 | 3,63 |
| 330 | Male | 66 | Ulna | Air | 400 | 20 | 54,94 | 61,39 | 53,45 | 22,95 | 0,49 | 4,07 |
| 331 | Male | 66 | Ulna | Air | 400 | 20 | 64,62 | 72,18 | 64,40 | 26,74 | -0,30 | 3,43 |
| 332 | Male | 66 | Ulna | Air | 400 | 20 | 71,37 | 79,81 | 72,51 | 29,44 | -0,47 | 3,08 |
| 333 | Male | 66 | Ulna | Fat | 100 | 10 | 156,92 | 136,60 | 110,59 | 54,56 | 7,82 | 17,74 |
| 334 | Male | 66 | Ulna | Fat | 100 | 10 | 163,26 | 142,13 | 115,95 | 57,12 | 7,99 | 17,89 |
| 335 | Male | 66 | Ulna | Fat | 100 | 10 | 185,57 | 160,05 | 133,58 | 63,66 | 9,04 | 17,98 |
| 336 | Male | 66 | Ulna | Fat | 100 | 10 | 188,31 | 159,61 | 133,06 | 64,30 | 10,48 | 18,58 |
| 337 | Male | 66 | Ulna | Fat | 100 | 20 | 153,09 | 134,86 | 111,66 | 53,94 | 7,11 | 15,48 |
| 338 | Male | 66 | Ulna | Fat | 100 | 20 | 154,31 | 132,99 | 108,79 | 53,80 | 8,35 | 16,78 |
| 339 | Male | 66 | Ulna | Fat | 100 | 30 | 153,27 | 133,76 | 109,07 | 54,10 | 7,75 | 17,09 |
| 340 | Male | 66 | Ulna | Fat | 100 | 30 | 159,42 | 139,73 | 115,00 | 57,43 | 7,32 | 16,66 |
| 341 | Male | 66 | Ulna | Fat | 100 | 20 | 175,96 | 154,70 | 127,08 | 61,74 | 7,51 | 18,23 |

Table s9. Raw data of the learning set (9/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 342 | Male | 66 | Ulna | Fat | 100 | 20 | 180,25 | 159,19 | 131,28 | 63,36 | 7,30 | 18,22 |
| 343 | Male | 66 | Ulna | Fat | 150 | 10 | 154,06 | 134,26 | 107,42 | 53,38 | 7,44 | 17,97 |
| 344 | Male | 66 | Ulna | Fat | 150 | 10 | 154,26 | 134,82 | 108,07 | 54,55 | 7,19 | 18,01 |
| 345 | Male | 66 | Ulna | Fat | 100 | 30 | 177,80 | 159,50 | 132,27 | 64,88 | 5,92 | 17,53 |
| 346 | Male | 66 | Ulna | Fat | 100 | 30 | 183,87 | 164,34 | 135,82 | 65,34 | 6,64 | 18,38 |
| 347 | Male | 66 | Ulna | Fat | 150 | 20 | 146,26 | 127,36 | 102,57 | 50,84 | 7,40 | 16,91 |
| 348 | Male | 66 | Ulna | Fat | 150 | 20 | 161,69 | 144,33 | 119,82 | 57,94 | 6,53 | 16,13 |
| 349 | Male | 66 | Ulna | Fat | 150 | 10 | 188,08 | 172,03 | 146,69 | 68,93 | 5,46 | 16,26 |
| 350 | Male | 66 | Ulna | Fat | 150 | 10 | 189,45 | 170,62 | 142,82 | 67,83 | 6,06 | 17,55 |
| 351 | Male | 66 | Ulna | Fat | 150 | 30 | 145,41 | 127,10 | 103,20 | 51,00 | 7,23 | 16,22 |
| 352 | Male | 66 | Ulna | Fat | 150 | 30 | 148,50 | 130,46 | 106,32 | 51,89 | 7,17 | 16,31 |
| 353 | Male | 66 | Ulna | Fat | 150 | 20 | 166,55 | 152,82 | 128,95 | 60,35 | 5,14 | 15,19 |
| 354 | Male | 66 | Ulna | Fat | 150 | 20 | 169,82 | 157,78 | 136,05 | 58,51 | 5,87 | 15,48 |
| 355 | Male | 66 | Ulna | Fat | 150 | 30 | 182,94 | 166,62 | 140,83 | 66,20 | 5,64 | 16,30 |
| 356 | Male | 66 | Ulna | Fat | 150 | 30 | 186,15 | 171,67 | 147,51 | 68,24 | 5,17 | 15,27 |
| 357 | Male | 66 | Ulna | Fat | 200 | 10 | 161,21 | 142,19 | 116,68 | 56,80 | 7,27 | 17,21 |
| 358 | Male | 66 | Ulna | Fat | 200 | 10 | 162,89 | 142,91 | 116,36 | 58,01 | 7,29 | 17,85 |
| 359 | Male | 66 | Ulna | Fat | 200 | 20 | 156,12 | 136,89 | 112,41 | 54,68 | 7,49 | 16,56 |
| 360 | Male | 66 | Ulna | Fat | 200 | 20 | 157,56 | 137,15 | 112,27 | 55,06 | 7,78 | 16,90 |
| 361 | Male | 66 | Ulna | Fat | 200 | 10 | 171,85 | 157,31 | 130,13 | 61,03 | 4,71 | 16,28 |
| 362 | Male | 66 | Ulna | Fat | 200 | 10 | 172,95 | 156,62 | 128,04 | 61,92 | 5,18 | 17,44 |
| 363 | Male | 66 | Ulna | Fat | 200 | 30 | 161,27 | 142,42 | 116,61 | 57,36 | 7,07 | 17,22 |
| 364 | Male | 66 | Ulna | Fat | 200 | 30 | 161,34 | 141,74 | 116,13 | 56,84 | 7,46 | 17,30 |
| 365 | Male | 66 | Ulna | Fat | 200 | 20 | 169,23 | 156,44 | 128,52 | 62,24 | 4,07 | 17,13 |
| 366 | Male | 66 | Ulna | Fat | 200 | 20 | 171,23 | 158,19 | 129,56 | 64,30 | 3,93 | 17,36 |
| 367 | Male | 66 | Ulna | Fat | 200 | 30 | 171,79 | 155,58 | 128,54 | 63,30 | 5,20 | 16,79 |
| 368 | Male | 66 | Ulna | Fat | 200 | 30 | 176,31 | 160,58 | 132,99 | 63,65 | 5,09 | 16,90 |
| 369 | Male | 66 | Ulna | Fat | 250 | 10 | 160,91 | 136,51 | 109,40 | 57,86 | 8,16 | 18,21 |
| 370 | Male | 66 | Ulna | Fat | 250 | 10 | 167,26 | 143,98 | 116,20 | 58,51 | 8,25 | 18,88 |
| 371 | Male | 66 | Ulna | Fat | 250 | 20 | 119,46 | 128,26 | 101,32 | 52,28 | 7,64 | 18,53 |
| 372 | Male | 66 | Ulna | Fat | 250 | 20 | 147,28 | 123,87 | 96,63 | 51,98 | 8,12 | 18,70 |
| 373 | Male | 66 | Ulna | Fat | 250 | 10 | 192,80 | 178,70 | 154,17 | 71,52 | 5,01 | 15,16 |
| 374 | Male | 66 | Ulna | Fat | 250 | 10 | 193,86 | 179,07 | 154,19 | 70,33 | 5,08 | 15,33 |
| 375 | Male | 66 | Ulna | Fat | 250 | 30 | 161,38 | 126,08 | 94,14 | 52,07 | 13,38 | 23,54 |
| 376 | Male | 66 | Ulna | Fat | 250 | 30 | 161,85 | 127,31 | 95,97 | 52,74 | 13,18 | 23,24 |
| 377 | Male | 66 | Ulna | Fat | 250 | 20 | 180,68 | 148,21 | 116,69 | 60,33 | 11,79 | 22,38 |
| 378 | Male | 66 | Ulna | Fat | 250 | 20 | 183,11 | 152,25 | 120,74 | 63,62 | 11,53 | 23,26 |
| 379 | Male | 66 | Ulna | Fat | 300 | 10 | 161,31 | 131,19 | 100,23 | 54,78 | 10,71 | 22,01 |
| 380 | Male | 66 | Ulna | Fat | 300 | 10 | 161,85 | 129,61 | 98,46 | 54,55 | 10,46 | 21,47 |
| 381 | Male | 66 | Ulna | Fat | 250 | 30 | 146,12 | 108,19 | 80,16 | 45,27 | 15,33 | 22,19 |
| 382 | Male | 66 | Ulna | Fat | 250 | 30 | 149,16 | 111,68 | 83,00 | 46,71 | 14,30 | 22,77 |
| 383 | Male | 66 | Ulna | Fat | 300 | 20 | 113,49 | 86,71 | 69,22 | 35,45 | 12,85 | 14,88 |
| 384 | Male | 66 | Ulna | Fat | 300 | 20 | 114,84 | 86,24 | 67,72 | 35,39 | 13,53 | 15,89 |

Table s9. Raw data of the learning set (10/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 385 | Male | 66 | Ulna | Fat | 300 | 10 | 159,41 | 121,88 | 91,07 | 50,54 | 14,60 | 23,41 |
| 386 | Male | 66 | Ulna | Fat | 300 | 10 | 163,65 | 126,13 | 95,32 | 52,85 | 14,75 | 23,61 |
| 387 | Male | 66 | Ulna | Fat | 300 | 30 | 59,38 | 64,08 | 55,90 | 21,81 | 1,61 | 4,83 |
| 388 | Male | 66 | Ulna | Fat | 300 | 30 | 61,45 | 63,49 | 54,72 | 22,63 | 1,89 | 4,94 |
| 389 | Male | 66 | Ulna | Fat | 300 | 20 | 67,89 | 68,60 | 59,08 | 24,53 | 2,50 | 5,80 |
| 390 | Male | 66 | Ulna | Fat | 300 | 20 | 68,69 | 68,77 | 58,87 | 24,89 | 2,66 | 6,09 |
| 391 | Male | 66 | Ulna | Fat | 350 | 10 | 94,01 | 77,36 | 62,71 | 30,41 | 9,29 | 11,86 |
| 392 | Male | 66 | Ulna | Fat | 350 | 10 | 80,95 | 69,68 | 57,26 | 26,41 | 7,14 | 9,47 |
| 393 | Male | 66 | Ulna | Fat | 300 | 30 | 61,47 | 66,89 | 59,01 | 23,69 | 0,83 | 4,00 |
| 394 | Male | 66 | Ulna | Fat | 300 | 30 | 62,67 | 68,30 | 60,64 | 24,04 | 0,64 | 3,74 |
| 395 | Male | 66 | Ulna | Fat | 350 | 20 | 62,52 | 63,87 | 54,11 | 22,31 | 2,05 | 5,64 |
| 396 | Male | 66 | Ulna | Fat | 350 | 20 | 67,25 | 67,34 | 56,61 | 24,85 | 2,59 | 6,76 |
| 397 | Male | 66 | Ulna | Fat | 350 | 10 | 162,41 | 133,48 | 102,49 | 53,89 | 10,56 | 21,62 |
| 398 | Male | 66 | Ulna | Fat | 350 | 10 | 166,91 | 140,84 | 110,22 | 57,20 | 9,23 | 20,92 |
| 399 | Male | 66 | Ulna | Fat | 350 | 30 | 63,30 | 66,94 | 58,19 | 23,66 | 1,51 | 4,88 |
| 400 | Male | 66 | Ulna | Fat | 350 | 30 | 67,19 | 69,24 | 59,42 | 24,94 | 1,86 | 5,69 |
| 401 | Male | 66 | Ulna | Fat | 350 | 20 | 57,52 | 61,77 | 53,58 | 21,57 | 1,21 | 4,43 |
| 402 | Male | 66 | Ulna | Fat | 350 | 20 | 59,31 | 63,56 | 55,16 | 22,08 | 1,04 | 4,38 |
| 403 | Male | 66 | Ulna | Fat | 400 | 10 | 66,54 | 64,97 | 53,98 | 23,35 | 3,37 | 7,19 |
| 404 | Male | 66 | Ulna | Fat | 400 | 10 | 73,50 | 68,27 | 56,05 | 24,98 | 4,69 | 8,43 |
| 405 | Male | 66 | Ulna | Fat | 350 | 30 | 54,42 | 59,24 | 51,07 | 20,34 | 0,98 | 4,26 |
| 406 | Male | 66 | Ulna | Fat | 350 | 30 | 55,82 | 60,31 | 52,04 | 20,65 | 1,05 | 4,30 |
| 407 | Male | 66 | Ulna | Fat | 400 | 20 | 59,45 | 64,22 | 55,99 | 22,00 | 0,98 | 4,38 |
| 408 | Male | 66 | Ulna | Fat | 400 | 20 | 61,90 | 64,64 | 55,38 | 22,43 | 1,77 | 5,34 |
| 409 | Male | 66 | Ulna | Fat | 400 | 10 | 53,94 | 59,52 | 51,35 | 20,42 | 0,65 | 4,18 |
| 410 | Male | 66 | Ulna | Fat | 400 | 10 | 54,11 | 59,94 | 51,99 | 20,43 | 0,50 | 3,87 |
| 411 | Male | 66 | Ulna | Fat | 400 | 20 | 59,99 | 65,53 | 57,33 | 22,36 | 0,54 | 4,04 |
| 412 | Male | 66 | Ulna | Fat | 400 | 20 | 62,90 | 67,62 | 58,97 | 23,70 | 0,85 | 4,48 |
| 413 | Male | 56 | Radius | Air | 800 | 30 | 249,38 | 242,83 | 238,12 | 93,21 | 0,38 | 3,91 |
| 414 | Male | 56 | Radius | Air | 800 | 30 | 252,67 | 245,31 | 241,77 | 94,12 | 0,33 | 3,51 |
| 415 | Male | 56 | Radius | Air | 800 | 30 | 254,88 | 247,87 | 244,44 | 96,32 | 0,40 | 4,37 |
| 416 | Male | 56 | Radius | Air | 800 | 30 | 255,22 | 248,30 | 244,76 | 96,45 | 0,08 | 4,24 |
| 417 | Male | 56 | Radius | Air | 800 | 30 | 254,88 | 247,84 | 244,34 | 96,10 | 0,53 | 4,05 |
| 418 | Male | 56 | Radius | Air | 800 | 30 | 241,45 | 234,74 | 232,38 | 93,12 | 0,09 | 3,93 |
| 419 | Male | 56 | Radius | Air | 800 | 30 | 242,60 | 235,65 | 232,77 | 95,45 | 0,45 | 3,79 |
| 420 | Male | 56 | Radius | Air | 800 | 30 | 252,78 | 244,57 | 242,87 | 96,88 | 0,23 | 3,38 |
| 421 | Male | 56 | Radius | Air | 800 | 30 | 253,93 | 246,96 | 243,32 | 95,42 | 0,32 | 5,22 |
| 422 | Male | 56 | Radius | Air | 800 | 30 | 250,55 | 243,83 | 239,77 | 96,13 | -0,17 | 4,10 |
| 423 | Male | 56 | Radius | Air | 900 | 20 | 254,22 | 256,97 | 254,13 | 93,77 | 0,22 | 2,86 |
| 424 | Male | 56 | Radius | Air | 900 | 20 | 254,34 | 245,74 | 243,11 | 94,35 | 0,33 | 4,34 |
| 425 | Male | 56 | Radius | Air | 900 | 20 | 255,99 | 249,21 | 245,67 | 95,33 | 0,14 | 3,29 |
| 426 | Male | 56 | Radius | Air | 900 | 20 | 251,66 | 245,30 | 241,76 | 91,31 | 0,14 | 4,24 |
| 427 | Male | 56 | Radius | Air | 900 | 20 | 253,76 | 246,10 | 244,12 | 92,89 | 0,41 | 4,36 |

Table s9. Raw data of the learning set (11/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|------|
| 428 | Male | 56 | Radius | Air | 900 | 20 | 249,77 | 242,78 | 240,08 | 93,46 | 0,05 | 4,05 |
| 429 | Male | 56 | Radius | Air | 900 | 20 | 252,24 | 245,42 | 241,76 | 92,96 | 0,31 | 3,99 |
| 430 | Male | 56 | Radius | Air | 900 | 20 | 250,64 | 243,76 | 241,77 | 92,24 | 0,54 | 3,87 |
| 431 | Male | 56 | Radius | Air | 900 | 20 | 250,31 | 243,52 | 240,76 | 95,54 | 0,12 | 5,68 |
| 432 | Male | 56 | Radius | Air | 900 | 20 | 252,97 | 245,41 | 243,06 | 92,35 | 0,01 | 3,79 |
| 433 | Male | 56 | Ulna | Air | 800 | 30 | 246,87 | 239,67 | 236,11 | 93,83 | 0,40 | 4,50 |
| 434 | Male | 56 | Ulna | Air | 800 | 30 | 244,99 | 238,24 | 234,68 | 92,87 | 0,46 | 4,05 |
| 435 | Male | 56 | Ulna | Air | 800 | 30 | 255,60 | 248,32 | 245,81 | 91,76 | 0,13 | 3,68 |
| 436 | Male | 56 | Ulna | Air | 800 | 30 | 253,65 | 246,64 | 243,73 | 90,80 | 0,77 | 4,31 |
| 437 | Male | 56 | Ulna | Air | 800 | 30 | 252,55 | 245,57 | 242,43 | 94,88 | 0,77 | 3,38 |
| 438 | Male | 56 | Ulna | Air | 800 | 30 | 252,85 | 245,31 | 241,54 | 93,92 | 1,19 | 2,53 |
| 439 | Male | 56 | Ulna | Air | 800 | 30 | 254,40 | 247,44 | 244,77 | 93,49 | -0,12 | 4,91 |
| 440 | Male | 56 | Ulna | Air | 800 | 30 | 249,70 | 242,76 | 239,77 | 92,21 | 0,13 | 4,01 |
| 441 | Male | 56 | Ulna | Air | 800 | 30 | 248,34 | 241,85 | 238,79 | 93,87 | 0,09 | 2,61 |
| 442 | Male | 56 | Ulna | Air | 800 | 30 | 253,34 | 246,30 | 239,89 | 94,21 | 0,45 | 2,70 |
| 443 | Male | 56 | Ulna | Air | 900 | 30 | 254,43 | 246,32 | 244,67 | 94,56 | 0,41 | 3,68 |
| 444 | Male | 56 | Ulna | Air | 900 | 30 | 255,51 | 248,72 | 246,17 | 94,75 | 0,35 | 4,27 |
| 445 | Male | 56 | Ulna | Air | 450 | 20 | 74,93 | 82,31 | 77,13 | 23,98 | -0,39 | 2,95 |
| 446 | Male | 56 | Ulna | Air | 900 | 30 | 252,36 | 245,31 | 242,82 | 91,08 | 0,04 | 4,09 |
| 447 | Male | 56 | Ulna | Air | 450 | 20 | 76,93 | 84,68 | 79,29 | 27,97 | 0,43 | 3,26 |
| 448 | Male | 56 | Ulna | Air | 900 | 30 | 249,74 | 243,74 | 240,15 | 94,88 | 0,12 | 3,28 |
| 449 | Male | 56 | Ulna | Air | 900 | 30 | 252,90 | 246,10 | 242,91 | 94,54 | 0,11 | 3,91 |
| 450 | Male | 56 | Ulna | Air | 450 | 20 | 75,93 | 83,70 | 79,06 | 21,98 | 0,66 | 3,49 |
| 451 | Male | 56 | Ulna | Air | 900 | 30 | 252,52 | 245,48 | 243,06 | 92,32 | 0,06 | 4,23 |
| 452 | Male | 56 | Ulna | Air | 450 | 20 | 77,93 | 85,74 | 80,02 | 25,97 | -0,53 | 3,35 |
| 453 | Male | 56 | Ulna | Air | 900 | 30 | 254,81 | 247,57 | 245,51 | 95,00 | 0,61 | 4,34 |
| 454 | Male | 56 | Ulna | Air | 450 | 20 | 69,94 | 77,55 | 72,48 | 25,97 | 0,27 | 3,16 |
| 455 | Male | 56 | Ulna | Air | 900 | 30 | 253,11 | 246,32 | 243,81 | 92,75 | 0,23 | 4,07 |
| 456 | Male | 56 | Ulna | Air | 450 | 20 | 62,94 | 70,62 | 65,86 | 25,97 | -0,04 | 3,47 |
| 457 | Male | 56 | Ulna | Air | 900 | 30 | 254,66 | 246,10 | 242,07 | 93,09 | 0,31 | 4,28 |
| 458 | Male | 56 | Ulna | Air | 900 | 30 | 250,60 | 244,00 | 241,90 | 92,13 | 0,10 | 3,97 |
| 459 | Male | 87 | Radius | Air | 400 | 30 | 57,14 | 67,75 | 62,62 | 23,54 | -0,30 | 3,29 |
| 460 | Male | 87 | Radius | Air | 400 | 30 | 67,78 | 77,76 | 68,57 | 22,24 | -0,24 | 3,41 |
| 461 | Male | 87 | Radius | Air | 400 | 30 | 68,22 | 79,82 | 72,42 | 27,32 | 0,55 | 3,60 |
| 462 | Male | 87 | Radius | Air | 400 | 30 | 56,67 | 62,52 | 55,25 | 16,33 | 0,16 | 3,38 |
| 463 | Male | 87 | Radius | Air | 450 | 10 | 72,93 | 81,02 | 74,95 | 27,97 | 0,13 | 3,79 |
| 464 | Male | 87 | Radius | Air | 400 | 30 | 49,78 | 57,98 | 52,65 | 21,90 | -0,15 | 3,82 |
| 465 | Male | 87 | Radius | Air | 400 | 30 | 53,33 | 62,44 | 56,35 | 23,33 | -0,22 | 3,29 |
| 466 | Male | 87 | Radius | Air | 450 | 10 | 67,94 | 76,81 | 71,09 | 26,97 | -0,05 | 3,14 |
| 467 | Male | 87 | Radius | Air | 450 | 10 | 69,94 | 78,32 | 72,44 | 25,97 | -0,77 | 2,94 |
| 468 | Male | 87 | Radius | Air | 450 | 10 | 67,94 | 76,43 | 71,17 | 27,97 | 0,23 | 3,94 |
| 469 | Male | 87 | Radius | Air | 450 | 10 | 66,94 | 75,32 | 70,08 | 29,97 | -0,11 | 3,18 |
| 470 | Male | 87 | Radius | Air | 450 | 20 | 79,93 | 88,13 | 81,85 | 27,97 | -0,48 | 3,14 |

Table s9. Raw data of the learning set (12/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|------|-----|------------------|--------|------------|-------------|-------|-------|-------|-------|-------|------|
| 471 | Male | 87 | Radius | Air | 450 | 20 | 60,94 | 68,94 | 63,13 | 23,98 | -0,01 | 3,34 |
| 472 | Male | 87 | Radius | Air | 450 | 20 | 76,93 | 84,54 | 79,84 | 25,97 | -0,23 | 3,26 |
| 473 | Male | 87 | Radius | Air | 450 | 20 | 65,94 | 73,34 | 69,03 | 26,97 | 0,37 | 3,81 |
| 474 | Male | 87 | Radius | Air | 450 | 20 | 72,93 | 80,93 | 76,03 | 21,98 | -0,43 | 3,88 |
| 475 | Male | 87 | Radius | Air | 450 | 20 | 79,93 | 87,49 | 82,76 | 27,97 | 0,62 | 3,36 |
| 476 | Male | 87 | Radius | Fat | 400 | 30 | 63,45 | 72,34 | 66,00 | 22,42 | -0,48 | 3,14 |
| 477 | Male | 87 | Radius | Fat | 400 | 30 | 60,48 | 67,64 | 60,88 | 24,65 | 0,14 | 4,07 |
| 478 | Male | 87 | Radius | Fat | 400 | 30 | 69,21 | 77,72 | 70,61 | 27,32 | 0,64 | 3,88 |
| 479 | Male | 87 | Radius | Fat | 400 | 30 | 63,30 | 72,75 | 67,24 | 30,72 | -0,15 | 3,18 |
| 480 | Male | 87 | Radius | Fat | 400 | 30 | 60,94 | 69,92 | 62,81 | 24,98 | 0,88 | 3,57 |
| 481 | Male | 87 | Radius | Fat | 450 | 10 | 63,94 | 72,24 | 66,61 | 21,98 | 1,88 | 4,89 |
| 482 | Male | 87 | Radius | Fat | 400 | 30 | 67,94 | 74,92 | 68,81 | 22,98 | 0,25 | 3,38 |
| 483 | Male | 87 | Radius | Fat | 450 | 10 | 68,94 | 77,44 | 72,11 | 21,98 | 0,77 | 3,29 |
| 484 | Male | 87 | Radius | Fat | 450 | 10 | 69,94 | 78,00 | 71,86 | 23,98 | 2,77 | 4,88 |
| 485 | Male | 87 | Radius | Fat | 450 | 10 | 64,94 | 73,22 | 66,96 | 22,98 | 3,33 | 6,14 |
| 486 | Male | 87 | Radius | Fat | 450 | 10 | 69,94 | 78,33 | 71,92 | 21,98 | 2,23 | 6,90 |
| 487 | Male | 87 | Radius | Fat | 450 | 10 | 65,94 | 74,21 | 68,40 | 24,98 | 0,99 | 6,64 |
| 488 | Male | 87 | Radius | Fat | 450 | 20 | 59,95 | 68,72 | 62,52 | 20,98 | 2,37 | 7,34 |
| 489 | Male | 87 | Radius | Fat | 450 | 20 | 56,95 | 65,89 | 60,00 | 18,98 | 0,79 | 4,37 |
| 490 | Male | 87 | Radius | Fat | 450 | 20 | 60,94 | 69,74 | 63,16 | 23,98 | 0,99 | 3,20 |
| 491 | Male | 87 | Radius | Fat | 450 | 20 | 58,95 | 67,61 | 61,39 | 23,98 | 3,33 | 6,90 |
| 492 | Male | 87 | Radius | Fat | 450 | 20 | 52,52 | 61,89 | 56,29 | 20,98 | 0,57 | 4,05 |
| 493 | Male | 87 | Radius | Fat | 450 | 20 | 61,94 | 69,95 | 64,65 | 24,98 | 2,31 | 5,44 |
| 494 | Male | 87 | Ulna | Air | 400 | 30 | 66,62 | 74,45 | 66,57 | 23,77 | -0,22 | 3,51 |
| 495 | Male | 87 | Ulna | Air | 400 | 30 | 65,00 | 73,17 | 68,26 | 24,43 | -0,15 | 3,55 |
| 496 | Male | 87 | Ulna | Air | 400 | 30 | 61,54 | 68,42 | 63,28 | 19,59 | -0,13 | 3,16 |
| 497 | Male | 87 | Ulna | Air | 400 | 30 | 44,55 | 51,64 | 46,64 | 14,23 | 0,18 | 3,73 |
| 498 | Male | 87 | Ulna | Air | 450 | 10 | 67,94 | 76,09 | 70,30 | 23,98 | 0,54 | 3,88 |
| 499 | Male | 87 | Ulna | Air | 400 | 30 | 54,51 | 63,16 | 56,98 | 22,69 | -0,15 | 3,65 |
| 500 | Male | 87 | Ulna | Air | 400 | 30 | 44,20 | 51,65 | 46,43 | 19,45 | -0,33 | 3,33 |
| 501 | Male | 87 | Ulna | Air | 450 | 10 | 73,93 | 82,46 | 76,72 | 24,98 | 0,00 | 3,27 |
| 502 | Male | 87 | Ulna | Air | 450 | 10 | 73,93 | 82,77 | 76,70 | 23,98 | -0,54 | 3,36 |
| 503 | Male | 87 | Ulna | Air | 450 | 10 | 67,94 | 76,77 | 70,83 | 28,97 | -0,43 | 3,35 |
| 504 | Male | 87 | Ulna | Air | 450 | 10 | 70,93 | 79,72 | 74,24 | 25,97 | 0,31 | 3,73 |
| 505 | Male | 87 | Ulna | Fat | 400 | 30 | 67,12 | 75,72 | 70,52 | 22,31 | 0,55 | 3,73 |
| 506 | Male | 87 | Ulna | Fat | 400 | 30 | 64,22 | 73,17 | 67,41 | 28,20 | -0,05 | 3,80 |
| 507 | Male | 87 | Ulna | Fat | 400 | 30 | 60,35 | 68,74 | 62,61 | 19,66 | -0,33 | 2,94 |
| 508 | Male | 87 | Ulna | Fat | 400 | 30 | 70,39 | 78,23 | 71,82 | 31,39 | 0,20 | 3,80 |
| 509 | Male | 87 | Ulna | Fat | 400 | 30 | 65,94 | 73,92 | 69,81 | 26,97 | -0,42 | 2,94 |
| 510 | Male | 87 | Ulna | Fat | 450 | 10 | 66,94 | 75,75 | 69,92 | 22,98 | 1,46 | 4,52 |
| 511 | Male | 87 | Ulna | Fat | 400 | 30 | 67,98 | 73,92 | 69,81 | 30,97 | 0,36 | 3,88 |
| 512 | Male | 87 | Ulna | Fat | 450 | 10 | 59,95 | 68,31 | 62,65 | 21,98 | 1,37 | 3,92 |
| 513 | Male | 87 | Ulna | Fat | 450 | 10 | 68,94 | 77,71 | 71,26 | 19,98 | 0,89 | 3,45 |

Table s9. Raw data of the learning set (13/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 514 | Male | 87 | Ulna | Fat | 450 | 10 | 61,43 | 70,72 | 65,03 | 20,98 | 1,17 | 3,03 |
| 515 | Male | 87 | Ulna | Fat | 450 | 10 | 66,94 | 74,94 | 68,82 | 21,98 | 0,54 | 7,26 |
| 516 | Male | 87 | Ulna | Fat | 450 | 10 | 60,94 | 69,38 | 63,02 | 20,98 | 3,12 | 2,94 |
| 517 | Male | 87 | Ulna | Fat | 450 | 20 | 62,94 | 71,01 | 65,95 | 22,98 | 0,09 | 3,05 |
| 518 | Male | 87 | Ulna | Fat | 450 | 20 | 62,94 | 71,62 | 65,87 | 20,98 | 0,12 | 4,47 |
| 519 | Male | 87 | Ulna | Fat | 450 | 20 | 62,94 | 70,99 | 65,53 | 28,98 | 1,13 | 6,25 |
| 520 | Male | 87 | Ulna | Fat | 450 | 30 | 54,95 | 63,58 | 57,93 | 21,98 | 0,77 | 5,91 |
| 521 | Male | 87 | Ulna | Fat | 450 | 20 | 58,95 | 67,51 | 61,77 | 23,98 | 0,35 | 3,15 |
| 522 | Male | 87 | Ulna | Fat | 450 | 30 | 53,85 | 62,72 | 56,93 | 19,98 | 3,42 | 4,55 |
| 523 | Female | 65 | Radius | Air | 500 | 10 | 65,68 | 68,16 | 59,96 | 24,89 | 1,64 | 4,93 |
| 524 | Female | 65 | Radius | Air | 500 | 10 | 67,06 | 69,56 | 60,95 | 24,55 | 1,79 | 5,01 |
| 525 | Female | 65 | Radius | Air | 500 | 20 | 91,52 | 90,92 | 80,51 | 32,67 | 2,48 | 6,07 |
| 526 | Female | 65 | Radius | Air | 500 | 20 | 95,26 | 95,21 | 84,89 | 34,25 | 2,09 | 5,75 |
| 527 | Female | 65 | Radius | Air | 500 | 30 | 151,08 | 140,95 | 125,31 | 26,39 | 5,18 | 4,74 |
| 528 | Female | 65 | Radius | Air | 500 | 30 | 135,46 | 127,83 | 113,05 | 50,53 | 4,39 | 9,55 |
| 529 | Female | 65 | Radius | Air | 600 | 10 | 79,61 | 83,29 | 75,00 | 28,96 | 1,27 | 4,38 |
| 530 | Female | 65 | Radius | Air | 600 | 10 | 83,42 | 84,63 | 75,33 | 30,27 | 2,08 | 5,35 |
| 531 | Female | 65 | Radius | Air | 700 | 30 | 244,38 | 250,64 | 241,95 | 95,04 | 0,09 | 3,97 |
| 532 | Female | 65 | Radius | Air | 700 | 30 | 244,45 | 251,33 | 243,34 | 94,40 | -0,01 | 3,60 |
| 533 | Female | 65 | Radius | Air | 600 | 20 | 77,42 | 81,48 | 73,35 | 29,80 | 1,12 | 4,08 |
| 534 | Female | 65 | Radius | Air | 600 | 20 | 101,07 | 102,26 | 92,71 | 38,84 | 2,14 | 5,54 |
| 535 | Female | 65 | Radius | Air | 600 | 30 | 104,29 | 105,90 | 96,79 | 38,07 | 1,95 | 5,08 |
| 536 | Female | 65 | Radius | Air | 600 | 30 | 104,64 | 105,51 | 95,71 | 38,86 | 2,11 | 5,60 |
| 537 | Female | 65 | Radius | Air | 700 | 10 | 131,06 | 135,58 | 127,48 | 51,85 | 0,97 | 4,06 |
| 538 | Female | 65 | Radius | Air | 700 | 10 | 137,77 | 139,75 | 130,13 | 55,04 | 1,58 | 5,47 |
| 539 | Female | 65 | Radius | Air | 700 | 20 | 214,04 | 220,95 | 213,01 | 83,75 | 0,07 | 3,80 |
| 540 | Female | 65 | Radius | Air | 700 | 20 | 214,25 | 221,19 | 212,96 | 83,97 | -0,03 | 3,89 |
| 541 | Female | 65 | Radius | Air | 800 | 10 | 225,54 | 227,27 | 214,77 | 88,82 | 0,90 | 6,20 |
| 542 | Female | 65 | Radius | Air | 800 | 10 | 227,39 | 230,54 | 219,15 | 89,10 | 0,82 | 6,00 |
| 543 | Female | 65 | Radius | Air | 800 | 20 | 228,67 | 228,24 | 212,98 | 93,03 | 0,92 | 6,60 |
| 544 | Female | 65 | Radius | Air | 800 | 20 | 229,59 | 231,17 | 218,43 | 92,01 | 0,80 | 6,08 |
| 545 | Female | 65 | Radius | Air | 900 | 10 | 245,10 | 248,27 | 237,38 | 93,41 | 0,68 | 5,32 |
| 546 | Female | 65 | Radius | Air | 900 | 10 | 248,16 | 253,17 | 243,70 | 96,01 | 0,43 | 4,85 |
| 547 | Female | 65 | Radius | Air | 0 | 0 | 176,83 | 135,00 | 107,30 | 60,41 | 13,19 | 19,65 |
| 548 | Female | 65 | Radius | Air | 0 | 0 | 179,19 | 142,11 | 114,51 | 61,40 | 11,98 | 19,51 |
| 549 | Female | 65 | Radius | Air | 100 | 10 | 166,56 | 127,30 | 101,01 | 53,33 | 14,53 | 20,55 |
| 550 | Female | 65 | Radius | Air | 100 | 10 | 167,25 | 133,93 | 108,01 | 53,22 | 15,72 | 21,30 |
| 551 | Female | 65 | Radius | Air | 100 | 20 | 165,14 | 134,89 | 108,38 | 54,53 | 12,00 | 19,61 |
| 552 | Female | 65 | Radius | Air | 100 | 20 | 166,21 | 136,00 | 109,41 | 55,18 | 3,33 | 19,78 |
| 553 | Female | 65 | Radius | Air | 100 | 30 | 164,11 | 138,70 | 110,99 | 55,74 | 9,51 | 19,17 |
| 554 | Female | 65 | Radius | Air | 100 | 30 | 167,80 | 140,45 | 113,70 | 56,31 | 10,55 | 19,09 |
| 555 | Female | 65 | Radius | Air | 150 | 10 | 174,88 | 153,52 | 123,30 | 60,45 | 7,50 | 19,88 |
| 556 | Female | 65 | Radius | Air | 150 | 10 | 180,77 | 159,95 | 131,84 | 62,37 | 7,65 | 18,79 |

Table s9. Raw data of the learning set (14/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 557 | Female | 65 | Radius | Air | 150 | 20 | 169,14 | 149,78 | 121,22 | 59,87 | 6,56 | 17,99 |
| 558 | Female | 65 | Radius | Air | 150 | 20 | 169,20 | 149,96 | 123,19 | 59,64 | 6,98 | 17,67 |
| 559 | Female | 65 | Radius | Air | 150 | 30 | 177,16 | 156,86 | 128,19 | 62,28 | 6,95 | 18,59 |
| 560 | Female | 65 | Radius | Air | 150 | 30 | 182,99 | 163,90 | 134,45 | 64,40 | 6,33 | 18,49 |
| 561 | Female | 65 | Radius | Air | 200 | 10 | 178,35 | 162,96 | 135,38 | 64,29 | 5,03 | 17,05 |
| 562 | Female | 65 | Radius | Air | 200 | 10 | 180,35 | 164,51 | 136,96 | 64,99 | 5,28 | 17,16 |
| 563 | Female | 65 | Radius | Air | 200 | 20 | 169,13 | 154,06 | 126,37 | 60,54 | 5,02 | 17,20 |
| 564 | Female | 65 | Radius | Air | 200 | 20 | 170,82 | 154,13 | 126,35 | 60,63 | 5,77 | 17,78 |
| 565 | Female | 65 | Radius | Air | 200 | 30 | 169,28 | 143,20 | 111,19 | 58,95 | 8,62 | 21,30 |
| 566 | Female | 65 | Radius | Air | 200 | 30 | 173,53 | 148,72 | 116,59 | 60,55 | 8,47 | 21,52 |
| 567 | Female | 65 | Radius | Air | 250 | 10 | 179,77 | 158,00 | 127,25 | 62,68 | 7,35 | 19,98 |
| 568 | Female | 65 | Radius | Air | 250 | 10 | 181,04 | 159,73 | 129,03 | 63,39 | 7,07 | 19,69 |
| 569 | Female | 65 | Radius | Air | 250 | 20 | 169,75 | 128,72 | 94,16 | 53,93 | 15,59 | 26,19 |
| 570 | Female | 65 | Radius | Air | 250 | 20 | 171,85 | 132,62 | 98,36 | 54,30 | 14,85 | 25,23 |
| 571 | Female | 65 | Radius | Air | 250 | 30 | 126,88 | 88,42 | 64,31 | 37,31 | 17,38 | 21,20 |
| 572 | Female | 65 | Radius | Air | 250 | 30 | 129,58 | 86,53 | 61,91 | 37,66 | 19,51 | 22,89 |
| 573 | Female | 65 | Radius | Air | 300 | 10 | 135,10 | 94,00 | 67,71 | 40,71 | 18,01 | 23,16 |
| 574 | Female | 65 | Radius | Air | 300 | 10 | 146,12 | 107,38 | 77,90 | 45,45 | 15,85 | 23,69 |
| 575 | Female | 65 | Radius | Air | 300 | 20 | 56,10 | 54,97 | 46,44 | 18,99 | 4,02 | 5,73 |
| 576 | Female | 65 | Radius | Air | 300 | 20 | 62,39 | 60,48 | 51,52 | 21,37 | 3,99 | 5,95 |
| 577 | Female | 65 | Radius | Air | 300 | 30 | 57,49 | 61,07 | 52,91 | 20,87 | 1,40 | 4,34 |
| 578 | Female | 65 | Radius | Air | 300 | 30 | 63,13 | 67,78 | 59,86 | 24,69 | 0,98 | 4,01 |
| 579 | Female | 65 | Radius | Air | 350 | 10 | 56,37 | 62,81 | 55,30 | 21,49 | 0,32 | 3,52 |
| 580 | Female | 65 | Radius | Air | 350 | 10 | 63,25 | 67,69 | 59,37 | 23,72 | 1,08 | 4,39 |
| 581 | Female | 65 | Radius | Air | 350 | 20 | 59,23 | 66,25 | 58,51 | 22,15 | -0,03 | 3,52 |
| 582 | Female | 65 | Radius | Air | 350 | 20 | 61,39 | 69,81 | 62,76 | 24,44 | -0,41 | 2,95 |
| 583 | Female | 65 | Radius | Air | 350 | 30 | 61,37 | 70,31 | 63,42 | 24,16 | -0,58 | 2,71 |
| 584 | Female | 65 | Radius | Air | 350 | 30 | 61,87 | 70,93 | 64,05 | 24,42 | -0,64 | 2,76 |
| 585 | Female | 65 | Radius | Air | 400 | 10 | 63,08 | 71,07 | 62,67 | 25,04 | -0,40 | 3,27 |
| 586 | Female | 65 | Radius | Air | 400 | 10 | 63,38 | 71,83 | 64,67 | 25,61 | -0,46 | 3,03 |
| 587 | Female | 65 | Radius | Air | 400 | 20 | 61,36 | 69,52 | 62,28 | 24,21 | -0,36 | 3,09 |
| 588 | Female | 65 | Radius | Air | 400 | 20 | 68,90 | 76,38 | 68,41 | 26,92 | -0,17 | 3,74 |
| 589 | Female | 65 | Radius | Fat | 100 | 10 | 168,70 | 140,67 | 114,13 | 56,95 | 11,48 | 19,79 |
| 590 | Female | 65 | Radius | Fat | 100 | 10 | 175,60 | 150,46 | 124,67 | 58,37 | 10,56 | 18,63 |
| 591 | Female | 65 | Radius | Fat | 100 | 20 | 157,47 | 130,17 | 105,85 | 49,84 | 13,27 | 18,91 |
| 592 | Female | 65 | Radius | Fat | 100 | 20 | 159,28 | 133,96 | 110,42 | 51,09 | 12,44 | 18,21 |
| 593 | Female | 65 | Radius | Fat | 100 | 30 | 164,96 | 141,41 | 114,04 | 56,58 | 8,87 | 18,74 |
| 594 | Female | 65 | Radius | Fat | 100 | 30 | 168,75 | 147,28 | 121,30 | 58,09 | 8,36 | 17,80 |
| 595 | Female | 65 | Radius | Fat | 150 | 10 | 162,74 | 139,78 | 115,97 | 54,84 | 9,70 | 17,08 |
| 596 | Female | 65 | Radius | Fat | 150 | 10 | 166,40 | 143,64 | 118,58 | 55,07 | 9,87 | 17,90 |
| 597 | Female | 65 | Radius | Fat | 150 | 20 | 168,75 | 147,28 | 121,30 | 67,31 | 5,90 | 17,96 |
| 598 | Female | 65 | Radius | Fat | 150 | 20 | 185,10 | 166,83 | 138,16 | 64,00 | 7,01 | 18,96 |
| 599 | Female | 65 | Radius | Fat | 150 | 30 | 181,05 | 161,76 | 133,52 | 63,47 | 6,76 | 18,08 |

Table s9. Raw data of the learning set (15/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 600 | Female | 65 | Radius | Fat | 150 | 30 | 183,65 | 165,61 | 137,95 | 65,99 | 5,96 | 17,65 |
| 601 | Female | 65 | Radius | Fat | 200 | 10 | 176,73 | 158,15 | 131,37 | 61,81 | 6,92 | 17,51 |
| 602 | Female | 65 | Radius | Fat | 200 | 10 | 176,80 | 157,36 | 129,87 | 60,82 | 7,59 | 18,28 |
| 603 | Female | 65 | Radius | Fat | 200 | 20 | 182,10 | 167,17 | 141,94 | 64,53 | 5,88 | 16,14 |
| 604 | Female | 65 | Radius | Fat | 200 | 20 | 184,41 | 169,85 | 144,21 | 65,90 | 5,23 | 15,99 |
| 605 | Female | 65 | Radius | Fat | 200 | 30 | 172,64 | 155,92 | 130,08 | 61,04 | 6,11 | 16,55 |
| 606 | Female | 65 | Radius | Fat | 200 | 30 | 179,67 | 163,52 | 137,60 | 62,84 | 6,53 | 17,06 |
| 607 | Female | 65 | Radius | Fat | 250 | 10 | 162,48 | 146,85 | 121,78 | 57,11 | 6,02 | 16,22 |
| 608 | Female | 65 | Radius | Fat | 250 | 10 | 168,69 | 154,84 | 130,08 | 61,01 | 1,42 | 15,40 |
| 609 | Female | 65 | Radius | Fat | 250 | 20 | 179,95 | 159,49 | 129,61 | 62,29 | 6,71 | 18,95 |
| 610 | Female | 65 | Radius | Fat | 250 | 20 | 180,28 | 160,18 | 130,47 | 63,11 | 7,14 | 19,39 |
| 611 | Female | 65 | Radius | Fat | 250 | 30 | 171,11 | 132,48 | 99,53 | 54,68 | 14,47 | 24,39 |
| 612 | Female | 65 | Radius | Fat | 250 | 30 | 172,11 | 134,81 | 101,53 | 55,68 | 13,79 | 24,25 |
| 613 | Female | 65 | Radius | Fat | 300 | 10 | 176,66 | 158,00 | 130,58 | 60,30 | 7,45 | 18,38 |
| 614 | Female | 65 | Radius | Fat | 300 | 10 | 181,43 | 162,28 | 133,94 | 64,87 | 0,39 | 18,11 |
| 615 | Female | 65 | Radius | Fat | 300 | 20 | 122,56 | 91,22 | 69,84 | 37,57 | 14,35 | 18,38 |
| 616 | Female | 65 | Radius | Fat | 300 | 20 | 125,24 | 93,18 | 71,21 | 38,27 | 14,29 | 18,56 |
| 617 | Female | 65 | Radius | Fat | 300 | 30 | 89,03 | 75,42 | 60,13 | 29,75 | 8,40 | 12,29 |
| 618 | Female | 65 | Radius | Fat | 300 | 30 | 90,74 | 77,32 | 62,94 | 30,21 | 8,47 | 11,78 |
| 619 | Female | 65 | Radius | Fat | 350 | 10 | 178,34 | 147,20 | 114,25 | 59,39 | 10,99 | 22,61 |
| 620 | Female | 65 | Radius | Fat | 350 | 10 | 178,58 | 147,43 | 114,40 | 59,83 | 10,95 | 22,81 |
| 621 | Female | 65 | Radius | Fat | 350 | 20 | 57,21 | 64,63 | 57,51 | 22,29 | 0,08 | 3,22 |
| 622 | Female | 65 | Radius | Fat | 350 | 20 | 57,96 | 64,75 | 57,32 | 22,47 | 0,24 | 3,42 |
| 623 | Female | 65 | Radius | Fat | 350 | 30 | 58,58 | 65,35 | 57,92 | 22,30 | 0,31 | 3,51 |
| 624 | Female | 65 | Radius | Fat | 350 | 30 | 61,57 | 65,82 | 57,33 | 23,21 | 1,03 | 4,48 |
| 625 | Female | 65 | Radius | Fat | 400 | 10 | 57,05 | 61,97 | 54,06 | 21,26 | 0,93 | 4,06 |
| 626 | Female | 65 | Radius | Fat | 400 | 10 | 58,05 | 64,10 | 56,54 | 21,96 | 0,68 | 3,78 |
| 627 | Female | 65 | Radius | Fat | 400 | 20 | 51,69 | 60,34 | 53,87 | 19,67 | -0,32 | 2,59 |
| 628 | Female | 65 | Radius | Fat | 400 | 20 | 58,45 | 66,75 | 56,67 | 22,85 | -0,20 | 2,81 |
| 629 | Female | 65 | Radius | Air | 0 | 0 | 142,99 | 117,49 | 93,90 | 47,74 | 10,51 | 17,32 |
| 630 | Female | 65 | Radius | Air | 0 | 0 | 146,04 | 121,74 | 97,28 | 49,38 | 9,81 | 17,82 |
| 631 | Female | 65 | Radius | Air | 100 | 30 | 147,10 | 130,91 | 106,41 | 52,08 | 6,16 | 16,18 |
| 632 | Female | 65 | Radius | Air | 100 | 30 | 150,90 | 134,95 | 110,49 | 53,48 | 6,17 | 15,92 |
| 633 | Female | 65 | Radius | Air | 200 | 30 | 166,61 | 141,68 | 110,77 | 57,47 | 8,45 | 20,39 |
| 634 | Female | 65 | Radius | Air | 200 | 30 | 166,86 | 142,59 | 112,08 | 58,04 | 8,21 | 20,16 |
| 635 | Female | 65 | Radius | Air | 250 | 30 | 130,85 | 91,65 | 68,38 | 40,20 | 17,15 | 20,91 |
| 636 | Female | 65 | Radius | Air | 250 | 30 | 127,54 | 91,14 | 68,97 | 39,70 | 16,64 | 20,28 |
| 637 | Female | 65 | Radius | Air | 300 | 30 | 61,25 | 64,58 | 56,65 | 23,91 | 1,88 | 4,48 |
| 638 | Female | 65 | Radius | Air | 300 | 30 | 64,67 | 68,69 | 60,72 | 24,60 | 1,41 | 4,27 |
| 639 | Female | 65 | Radius | Air | 350 | 30 | 67,94 | 75,89 | 68,63 | 27,47 | -0,26 | 3,11 |
| 640 | Female | 65 | Radius | Air | 350 | 30 | 68,45 | 76,01 | 68,70 | 27,41 | 0,05 | 3,26 |
| 641 | Female | 65 | Radius | Air | 400 | 20 | 73,57 | 80,64 | 72,91 | 29,48 | 0,04 | 3,61 |
| 642 | Female | 65 | Radius | Air | 400 | 20 | 73,78 | 80,36 | 72,36 | 30,14 | 0,12 | 3,78 |

Table s9. Raw data of the learning set (16/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 643 | Female | 65 | Radius | Air | 450 | 30 | 102,31 | 99,71 | 88,86 | 38,95 | 3,27 | 6,78 |
| 644 | Female | 65 | Radius | Air | 450 | 30 | 122,76 | 115,30 | 101,90 | 45,32 | 4,88 | 9,03 |
| 645 | Female | 65 | Radius | Fat | 100 | 30 | 147,13 | 129,11 | 104,82 | 52,23 | 6,78 | 16,16 |
| 646 | Female | 65 | Radius | Fat | 100 | 30 | 148,13 | 129,55 | 105,19 | 51,53 | 7,29 | 16,40 |
| 647 | Female | 65 | Radius | Fat | 200 | 30 | 142,52 | 125,82 | 101,97 | 50,82 | 6,65 | 16,01 |
| 648 | Female | 65 | Radius | Fat | 200 | 30 | 145,37 | 125,58 | 101,25 | 54,80 | 7,09 | 16,43 |
| 649 | Female | 65 | Radius | Fat | 250 | 30 | 149,83 | 114,02 | 84,47 | 57,63 | 9,40 | 20,17 |
| 650 | Female | 65 | Radius | Fat | 250 | 30 | 152,23 | 114,55 | 84,31 | 47,69 | 14,92 | 23,33 |
| 651 | Female | 65 | Radius | Fat | 300 | 30 | 55,81 | 60,74 | 52,56 | 47,33 | 14,09 | 22,52 |
| 652 | Female | 65 | Radius | Fat | 300 | 30 | 57,69 | 61,10 | 52,46 | 21,31 | 1,37 | 4,71 |
| 653 | Female | 65 | Radius | Fat | 350 | 30 | 50,46 | 57,79 | 50,96 | 19,21 | 0,41 | 2,96 |
| 654 | Female | 65 | Radius | Fat | 350 | 30 | 52,05 | 59,62 | 52,69 | 21,33 | 0,97 | 3,92 |
| 655 | Female | 65 | Radius | Fat | 400 | 20 | 53,80 | 61,88 | 55,13 | 18,19 | -0,05 | 3,88 |
| 656 | Female | 65 | Radius | Fat | 400 | 20 | 56,45 | 63,98 | 57,08 | 22,93 | 0,15 | 2,91 |
| 657 | Female | 65 | Radius | Fat | 450 | 30 | 132,78 | 129,64 | 118,14 | 51,03 | 3,01 | 6,86 |
| 658 | Female | 65 | Radius | Fat | 450 | 30 | 135,16 | 129,66 | 116,99 | 49,78 | 4,13 | 8,27 |
| 659 | Female | 65 | Ulna | Air | 500 | 10 | 55,24 | 62,34 | 54,72 | 20,91 | 0,16 | 3,53 |
| 660 | Female | 65 | Ulna | Air | 500 | 10 | 58,64 | 65,39 | 57,93 | 22,18 | 0,24 | 3,45 |
| 661 | Female | 65 | Ulna | Air | 500 | 20 | 77,94 | 75,18 | 64,96 | 27,61 | 3,56 | 6,80 |
| 662 | Female | 65 | Ulna | Air | 500 | 20 | 123,97 | 114,30 | 99,54 | 22,47 | 6,38 | 6,11 |
| 663 | Female | 65 | Ulna | Air | 500 | 30 | 121,86 | 114,03 | 100,02 | 44,48 | 4,77 | 9,30 |
| 664 | Female | 65 | Ulna | Air | 500 | 30 | 130,44 | 122,38 | 108,52 | 47,52 | 4,82 | 9,21 |
| 665 | Female | 65 | Ulna | Air | 600 | 10 | 84,21 | 85,07 | 75,40 | 31,33 | 2,24 | 5,53 |
| 666 | Female | 65 | Ulna | Air | 600 | 10 | 93,41 | 91,26 | 80,60 | 33,45 | 3,11 | 6,55 |
| 667 | Female | 65 | Ulna | Air | 700 | 30 | 238,72 | 248,91 | 243,22 | 93,80 | -0,62 | 2,36 |
| 668 | Female | 65 | Ulna | Air | 700 | 30 | 227,57 | 234,55 | 227,14 | 88,43 | 0,12 | 3,43 |
| 669 | Female | 65 | Ulna | Air | 600 | 20 | 90,17 | 91,65 | 82,36 | 32,30 | 1,86 | 4,96 |
| 670 | Female | 65 | Ulna | Air | 600 | 20 | 90,51 | 90,39 | 80,55 | 32,36 | 2,52 | 5,81 |
| 671 | Female | 65 | Ulna | Air | 600 | 30 | 92,29 | 94,63 | 85,69 | 35,00 | 1,70 | 5,00 |
| 672 | Female | 65 | Ulna | Air | 600 | 30 | 94,27 | 95,77 | 86,38 | 35,26 | 1,96 | 5,30 |
| 673 | Female | 65 | Ulna | Air | 700 | 10 | 100,06 | 103,70 | 95,32 | 39,09 | 1,22 | 4,38 |
| 674 | Female | 65 | Ulna | Air | 700 | 10 | 112,62 | 115,09 | 105,87 | 43,35 | 1,61 | 5,19 |
| 675 | Female | 65 | Ulna | Air | 700 | 20 | 198,01 | 204,18 | 196,88 | 77,86 | 0,47 | 3,82 |
| 676 | Female | 65 | Ulna | Air | 700 | 20 | 217,04 | 225,53 | 219,13 | 86,29 | -0,20 | 2,90 |
| 677 | Female | 65 | Ulna | Air | 800 | 10 | 247,33 | 253,68 | 245,04 | 95,82 | 0,02 | 4,05 |
| 678 | Female | 65 | Ulna | Air | 800 | 10 | 248,72 | 255,19 | 246,78 | 96,04 | 0,08 | 3,90 |
| 679 | Female | 65 | Ulna | Air | 800 | 20 | 250,51 | 256,78 | 248,40 | 97,06 | 0,12 | 4,05 |
| 680 | Female | 65 | Ulna | Air | 800 | 20 | 248,81 | 255,00 | 245,77 | 96,80 | 0,11 | 4,62 |
| 681 | Female | 65 | Ulna | Air | 900 | 10 | 247,03 | 252,88 | 244,35 | 95,24 | 0,23 | 3,95 |
| 682 | Female | 65 | Ulna | Air | 900 | 10 | 249,55 | 256,23 | 247,99 | 96,33 | 0,04 | 3,86 |
| 683 | Female | 65 | Ulna | Air | 0 | 0 | 167,53 | 136,74 | 114,00 | 54,53 | 14,08 | 18,44 |
| 684 | Female | 65 | Ulna | Fat | 0 | 0 | 164,06 | 129,00 | 104,91 | 53,15 | 14,37 | 19,41 |
| 685 | Female | 65 | Ulna | Air | 100 | 10 | 176,65 | 149,01 | 120,48 | 59,53 | 10,46 | 19,96 |

Table s9. Raw data of the learning set (17/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 686 | Female | 65 | Ulna | Air | 100 | 10 | 182,75 | 156,61 | 129,33 | 61,58 | 10,33 | 19,56 |
| 687 | Female | 65 | Ulna | Air | 100 | 20 | 168,52 | 143,15 | 116,11 | 56,71 | 10,20 | 19,28 |
| 688 | Female | 65 | Ulna | Air | 100 | 20 | 173,74 | 149,66 | 123,96 | 60,14 | 9,20 | 17,80 |
| 689 | Female | 65 | Ulna | Air | 100 | 30 | 163,21 | 138,36 | 110,53 | 53,46 | 9,90 | 19,67 |
| 690 | Female | 65 | Ulna | Air | 100 | 30 | 167,41 | 144,69 | 119,38 | 56,51 | 9,53 | 18,37 |
| 691 | Female | 65 | Ulna | Air | 150 | 10 | 173,69 | 149,91 | 119,89 | 59,62 | 8,48 | 20,06 |
| 692 | Female | 65 | Ulna | Air | 150 | 10 | 178,78 | 156,65 | 128,04 | 60,90 | 8,23 | 19,31 |
| 693 | Female | 65 | Ulna | Air | 150 | 20 | 171,31 | 152,88 | 126,86 | 59,81 | 6,69 | 16,92 |
| 694 | Female | 65 | Ulna | Air | 150 | 20 | 173,06 | 155,07 | 128,87 | 60,50 | 6,79 | 17,60 |
| 695 | Female | 65 | Ulna | Air | 150 | 30 | 164,20 | 146,96 | 121,72 | 57,71 | 6,59 | 17,10 |
| 696 | Female | 65 | Ulna | Air | 150 | 30 | 164,43 | 148,75 | 123,59 | 58,32 | 5,87 | 16,51 |
| 697 | Female | 65 | Ulna | Air | 200 | 10 | 179,04 | 161,88 | 135,21 | 63,47 | 6,11 | 17,40 |
| 698 | Female | 65 | Ulna | Air | 200 | 10 | 179,68 | 164,12 | 137,78 | 64,41 | 5,38 | 16,50 |
| 699 | Female | 65 | Ulna | Air | 200 | 20 | 179,89 | 158,42 | 127,25 | 62,99 | 6,94 | 19,69 |
| 700 | Female | 65 | Ulna | Air | 200 | 20 | 183,56 | 162,45 | 131,82 | 64,81 | 6,36 | 18,73 |
| 701 | Female | 65 | Ulna | Air | 200 | 30 | 169,77 | 148,68 | 118,23 | 59,89 | 6,73 | 19,38 |
| 702 | Female | 65 | Ulna | Air | 200 | 30 | 172,56 | 151,55 | 121,44 | 60,50 | 6,96 | 19,43 |
| 703 | Female | 65 | Ulna | Air | 250 | 10 | 176,30 | 155,10 | 125,25 | 61,94 | 6,93 | 18,97 |
| 704 | Female | 65 | Ulna | Air | 250 | 10 | 180,30 | 160,00 | 130,58 | 64,06 | 6,62 | 18,62 |
| 705 | Female | 65 | Ulna | Air | 250 | 20 | 150,76 | 113,95 | 81,90 | 47,35 | 14,08 | 24,20 |
| 706 | Female | 65 | Ulna | Air | 250 | 20 | 153,33 | 113,98 | 85,02 | 46,25 | 15,56 | 22,61 |
| 707 | Female | 65 | Ulna | Air | 250 | 30 | 111,10 | 79,94 | 61,92 | 37,55 | 17,13 | 19,71 |
| 708 | Female | 65 | Ulna | Air | 250 | 30 | 119,91 | 84,78 | 64,83 | 35,84 | 16,75 | 18,64 |
| 709 | Female | 65 | Ulna | Air | 300 | 10 | 136,75 | 96,36 | 70,89 | 41,44 | 13,65 | 22,37 |
| 710 | Female | 65 | Ulna | Air | 300 | 10 | 137,39 | 97,04 | 70,12 | 42,78 | 17,27 | 23,58 |
| 711 | Female | 65 | Ulna | Air | 300 | 20 | 65,88 | 66,53 | 57,87 | 24,94 | 3,01 | 5,50 |
| 712 | Female | 65 | Ulna | Air | 300 | 20 | 70,40 | 67,49 | 58,07 | 24,29 | 3,93 | 6,16 |
| 713 | Female | 65 | Ulna | Air | 300 | 30 | 66,58 | 67,60 | 58,97 | 24,99 | 2,76 | 5,36 |
| 714 | Female | 65 | Ulna | Air | 300 | 30 | 66,98 | 67,31 | 58,85 | 24,03 | 2,78 | 5,09 |
| 715 | Female | 65 | Ulna | Air | 350 | 10 | 55,37 | 60,39 | 52,53 | 21,33 | 0,66 | 3,96 |
| 716 | Female | 65 | Ulna | Air | 350 | 10 | 56,91 | 62,29 | 54,30 | 20,62 | 0,90 | 4,00 |
| 717 | Female | 65 | Ulna | Air | 350 | 20 | 63,76 | 72,05 | 64,81 | 27,10 | -0,23 | 3,26 |
| 718 | Female | 65 | Ulna | Air | 350 | 20 | 67,61 | 75,36 | 67,89 | 25,66 | -0,43 | 3,06 |
| 719 | Female | 65 | Ulna | Air | 350 | 30 | 57,56 | 65,96 | 58,88 | 24,82 | -0,48 | 2,91 |
| 720 | Female | 65 | Ulna | Air | 350 | 30 | 62,51 | 71,18 | 64,12 | 23,28 | -0,41 | 2,97 |
| 721 | Female | 65 | Ulna | Air | 400 | 10 | 68,12 | 76,23 | 68,78 | 28,99 | 0,05 | 3,59 |
| 722 | Female | 65 | Ulna | Air | 400 | 10 | 72,14 | 79,09 | 71,35 | 27,44 | -0,41 | 3,21 |
| 723 | Female | 65 | Ulna | Air | 400 | 20 | 64,13 | 71,46 | 63,68 | 27,70 | -0,20 | 3,53 |
| 724 | Female | 65 | Ulna | Air | 400 | 20 | 69,26 | 76,71 | 68,86 | 25,70 | -0,14 | 3,55 |
| 725 | Female | 65 | Ulna | Fat | 100 | 10 | 159,84 | 134,08 | 107,18 | 56,29 | 8,43 | 18,45 |
| 726 | Female | 65 | Ulna | Fat | 100 | 10 | 164,00 | 141,81 | 114,85 | 54,00 | 9,30 | 18,52 |
| 727 | Female | 65 | Ulna | Fat | 100 | 20 | 175,94 | 150,44 | 122,20 | 60,42 | 9,10 | 19,13 |
| 728 | Female | 65 | Ulna | Fat | 100 | 20 | 179,25 | 155,40 | 128,65 | 63,11 | 8,18 | 17,76 |

Table s9. Raw data of the learning set (18/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 729 | Female | 65 | Ulna | Fat | 100 | 30 | 152,28 | 128,95 | 103,71 | 52,27 | 8,54 | 17,25 |
| 730 | Female | 65 | Ulna | Fat | 100 | 30 | 156,41 | 134,87 | 110,52 | 54,19 | 8,14 | 16,65 |
| 731 | Female | 65 | Ulna | Fat | 150 | 10 | 175,36 | 150,44 | 123,00 | 61,54 | 8,17 | 18,11 |
| 732 | Female | 65 | Ulna | Fat | 150 | 10 | 176,42 | 153,28 | 126,37 | 62,55 | 7,36 | 17,45 |
| 733 | Female | 65 | Ulna | Fat | 150 | 20 | 180,22 | 160,42 | 132,55 | 64,03 | 6,42 | 17,63 |
| 734 | Female | 65 | Ulna | Fat | 150 | 20 | 180,25 | 159,72 | 132,10 | 64,61 | 6,41 | 17,34 |
| 735 | Female | 65 | Ulna | Fat | 150 | 30 | 177,74 | 154,75 | 126,01 | 62,88 | 7,48 | 18,60 |
| 736 | Female | 65 | Ulna | Fat | 150 | 30 | 181,51 | 161,14 | 133,13 | 64,04 | 6,42 | 17,44 |
| 737 | Female | 65 | Ulna | Fat | 200 | 10 | 174,52 | 157,69 | 131,15 | 63,95 | 5,17 | 16,44 |
| 738 | Female | 65 | Ulna | Fat | 200 | 10 | 175,52 | 158,10 | 130,75 | 64,04 | 5,22 | 16,86 |
| 739 | Female | 65 | Ulna | Fat | 200 | 20 | 164,62 | 148,12 | 123,02 | 58,56 | 5,99 | 16,07 |
| 740 | Female | 65 | Ulna | Fat | 200 | 20 | 174,22 | 157,50 | 132,16 | 62,24 | 6,40 | 16,81 |
| 741 | Female | 65 | Ulna | Fat | 200 | 30 | 181,02 | 161,36 | 134,38 | 64,06 | 6,47 | 17,00 |
| 742 | Female | 65 | Ulna | Fat | 200 | 30 | 183,47 | 162,76 | 135,09 | 64,50 | 7,29 | 18,10 |
| 743 | Female | 65 | Ulna | Fat | 250 | 10 | 168,99 | 150,74 | 123,87 | 60,01 | 6,39 | 17,32 |
| 744 | Female | 65 | Ulna | Fat | 250 | 20 | 164,52 | 143,22 | 114,99 | 56,33 | 7,70 | 18,53 |
| 745 | Female | 65 | Ulna | Fat | 250 | 20 | 169,10 | 146,42 | 117,65 | 58,79 | 8,08 | 19,29 |
| 746 | Female | 65 | Ulna | Fat | 250 | 30 | 160,57 | 121,35 | 89,83 | 50,86 | 15,24 | 24,32 |
| 747 | Female | 65 | Ulna | Fat | 250 | 30 | 161,98 | 122,61 | 90,40 | 51,83 | 15,16 | 24,91 |
| 748 | Female | 65 | Ulna | Fat | 300 | 10 | 176,04 | 157,81 | 131,94 | 62,71 | 6,47 | 16,77 |
| 749 | Female | 65 | Ulna | Fat | 300 | 10 | 183,55 | 165,09 | 137,97 | 65,15 | 6,14 | 17,02 |
| 750 | Female | 65 | Ulna | Fat | 300 | 20 | 107,68 | 80,57 | 62,74 | 32,75 | 12,19 | 15,48 |
| 751 | Female | 65 | Ulna | Fat | 300 | 20 | 119,73 | 88,38 | 66,45 | 36,77 | 14,32 | 18,65 |
| 752 | Female | 65 | Ulna | Fat | 300 | 30 | 61,90 | 62,55 | 53,73 | 22,02 | 2,42 | 5,15 |
| 753 | Female | 65 | Ulna | Fat | 300 | 30 | 65,28 | 65,89 | 56,97 | 23,42 | 2,53 | 5,34 |
| 754 | Female | 65 | Ulna | Fat | 350 | 10 | 126,41 | 92,52 | 71,14 | 38,31 | 15,29 | 18,52 |
| 755 | Female | 65 | Ulna | Fat | 350 | 10 | 128,19 | 92,51 | 70,31 | 39,03 | 15,99 | 19,38 |
| 756 | Female | 65 | Ulna | Fat | 350 | 20 | 56,11 | 63,41 | 56,30 | 21,64 | 0,02 | 3,11 |
| 757 | Female | 65 | Ulna | Fat | 350 | 20 | 56,57 | 64,18 | 55,12 | 22,37 | -0,05 | 3,09 |
| 758 | Female | 65 | Ulna | Fat | 350 | 30 | 49,99 | 57,19 | 49,90 | 18,55 | -0,04 | 3,12 |
| 759 | Female | 65 | Ulna | Fat | 350 | 30 | 55,68 | 62,76 | 55,48 | 21,29 | 0,11 | 3,28 |
| 760 | Female | 65 | Ulna | Fat | 400 | 10 | 58,64 | 65,60 | 58,45 | 22,62 | 0,22 | 3,24 |
| 761 | Female | 65 | Ulna | Fat | 400 | 10 | 59,76 | 65,79 | 58,24 | 22,55 | 0,38 | 3,51 |
| 762 | Female | 65 | Ulna | Fat | 400 | 20 | 52,46 | 61,03 | 54,52 | 20,46 | -0,38 | 2,52 |
| 763 | Female | 65 | Ulna | Fat | 400 | 20 | 55,27 | 63,78 | 57,22 | 21,72 | -0,34 | 2,59 |
| 764 | Female | 65 | Ulna | Fat | 0 | 0 | 179,09 | 156,11 | 125,98 | 62,26 | 7,70 | 19,41 |
| 765 | Female | 65 | Ulna | Fat | 0 | 0 | 187,24 | 165,21 | 135,59 | 65,11 | 7,56 | 19,16 |
| 766 | Female | 65 | Ulna | Air | 100 | 30 | 174,76 | 153,33 | 124,47 | 61,04 | 7,35 | 18,76 |
| 767 | Female | 65 | Ulna | Air | 100 | 30 | 177,52 | 155,10 | 126,03 | 62,03 | 7,63 | 19,38 |
| 768 | Female | 65 | Ulna | Air | 200 | 30 | 180,75 | 145,82 | 112,49 | 60,47 | 11,91 | 23,03 |
| 769 | Female | 65 | Ulna | Air | 200 | 30 | 191,76 | 159,99 | 125,84 | 64,81 | 10,90 | 23,29 |
| 770 | Female | 65 | Ulna | Air | 250 | 30 | 129,65 | 90,44 | 67,45 | 38,61 | 17,43 | 20,46 |
| 771 | Female | 65 | Ulna | Air | 250 | 30 | 131,76 | 92,87 | 69,99 | 39,90 | 17,43 | 20,62 |

Table s9. Raw data of the learning set (19/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 772 | Female | 65 | Ulna | Air | 300 | 30 | 61,48 | 63,04 | 54,40 | 22,44 | 2,31 | 5,11 |
| 773 | Female | 65 | Ulna | Air | 300 | 30 | 64,06 | 66,94 | 58,68 | 24,22 | 1,94 | 4,76 |
| 774 | Female | 65 | Ulna | Air | 350 | 30 | 65,53 | 73,83 | 66,57 | 26,89 | -0,22 | 3,18 |
| 775 | Female | 65 | Ulna | Air | 350 | 30 | 65,57 | 73,45 | 65,97 | 26,41 | -0,11 | 4,47 |
| 776 | Female | 65 | Ulna | Air | 400 | 20 | 58,37 | 66,41 | 59,37 | 23,44 | -0,13 | 3,06 |
| 777 | Female | 65 | Ulna | Air | 400 | 20 | 64,06 | 71,70 | 63,98 | 25,36 | -0,16 | 3,49 |
| 778 | Female | 65 | Ulna | Air | 450 | 30 | 103,28 | 100,34 | 89,26 | 38,98 | 3,48 | 7,03 |
| 779 | Female | 65 | Ulna | Air | 450 | 30 | 115,67 | 111,16 | 99,43 | 42,97 | 3,82 | 7,54 |
| 780 | Female | 65 | Ulna | Fat | 100 | 30 | 157,70 | 129,89 | 100,76 | 52,71 | 10,47 | 20,57 |
| 781 | Female | 65 | Ulna | Fat | 100 | 30 | 158,68 | 131,22 | 101,65 | 53,44 | 10,20 | 20,83 |
| 782 | Female | 65 | Ulna | Fat | 200 | 30 | 177,53 | 154,07 | 124,65 | 61,31 | 7,95 | 19,11 |
| 783 | Female | 65 | Ulna | Fat | 200 | 30 | 177,68 | 153,99 | 124,15 | 61,77 | 7,98 | 19,60 |
| 784 | Female | 65 | Ulna | Fat | 250 | 30 | 150,20 | 114,93 | 85,60 | 47,37 | 14,33 | 22,63 |
| 785 | Female | 65 | Ulna | Fat | 250 | 30 | 157,04 | 119,04 | 88,09 | 49,61 | 14,96 | 23,70 |
| 786 | Female | 65 | Ulna | Fat | 300 | 30 | 53,55 | 58,27 | 50,39 | 21,52 | 0,93 | 3,96 |
| 787 | Female | 65 | Ulna | Fat | 300 | 30 | 58,90 | 62,84 | 54,77 | 22,01 | 1,11 | 4,14 |
| 788 | Female | 65 | Ulna | Fat | 350 | 30 | 47,21 | 54,87 | 47,82 | 18,10 | -0,06 | 3,04 |
| 789 | Female | 65 | Ulna | Fat | 350 | 30 | 51,25 | 58,99 | 52,00 | 19,78 | -0,14 | 2,97 |
| 790 | Female | 65 | Ulna | Fat | 400 | 20 | 44,92 | 52,89 | 46,10 | 16,09 | 0,04 | 2,80 |
| 791 | Female | 65 | Ulna | Fat | 400 | 20 | 47,95 | 55,87 | 49,29 | 18,29 | 0,09 | 2,69 |
| 792 | Female | 65 | Ulna | Fat | 450 | 30 | 136,32 | 132,01 | 119,75 | 51,51 | 3,47 | 7,60 |
| 793 | Female | 65 | Ulna | Fat | 450 | 30 | 131,17 | 129,52 | 119,01 | 50,23 | 2,93 | 6,23 |
| 794 | Female | 54 | Ulna | Fat | 0 | 0 | 163,67 | 108,50 | 112,17 | 50,64 | 17,15 | 17,76 |
| 795 | Female | 54 | Ulna | Air | 0 | 0 | 160,17 | 123,00 | 102,34 | 49,97 | 15,29 | 21,74 |
| 796 | Female | 54 | Radius | Fat | 0 | 0 | 160,17 | 118,50 | 108,34 | 49,06 | 18,88 | 17,38 |
| 797 | Female | 54 | Radius | Fat | 0 | 0 | 156,67 | 117,16 | 98,34 | 48,05 | 16,98 | 21,61 |
| 798 | Female | 54 | Ulna | Air | 0 | 0 | 156,33 | 114,16 | 102,84 | 47,19 | 19,09 | 17,86 |
| 799 | Female | 54 | Ulna | Fat | 0 | 0 | 152,67 | 104,33 | 95,17 | 47,20 | 22,81 | 18,33 |
| 800 | Female | 54 | Radius | Air | 0 | 0 | 174,33 | 141,33 | 119,84 | 57,40 | 12,14 | 20,52 |
| 801 | Female | 54 | Radius | Fat | 0 | 0 | 168,50 | 118,00 | 113,84 | 53,88 | 13,48 | 21,11 |
| 802 | Female | 54 | Ulna | Air | 0 | 0 | 139,33 | 104,00 | 88,67 | 42,01 | 15,31 | 18,93 |
| 803 | Female | 54 | Ulna | Air | 0 | 0 | 148,50 | 111,50 | 97,34 | 45,42 | 16,06 | 18,85 |
| 804 | Female | 54 | Radius | Fat | 0 | 0 | 152,33 | 117,66 | 99,00 | 47,53 | 14,10 | 20,48 |
| 805 | Female | 54 | Radius | Air | 0 | 0 | 162,83 | 125,50 | 105,34 | 50,36 | 15,76 | 21,80 |
| 806 | Female | 54 | Ulna | Fat | 0 | 0 | 167,83 | 127,00 | 115,00 | 51,53 | 17,68 | 19,04 |
| 807 | Female | 54 | Ulna | Air | 0 | 0 | 165,83 | 131,16 | 109,34 | 45,19 | 13,48 | 21,72 |
| 808 | Female | 54 | Radius | Fat | 0 | 0 | 164,17 | 123,16 | 111,17 | 50,31 | 18,38 | 17,39 |
| 809 | Female | 54 | Radius | Air | 0 | 0 | 169,00 | 133,50 | 114,34 | 54,04 | 13,95 | 20,28 |
| 810 | Female | 54 | Ulna | Fat | 0 | 0 | 164,67 | 121,16 | 109,34 | 50,46 | 19,55 | 18,35 |
| 811 | Female | 54 | Ulna | Air | 0 | 0 | 158,67 | 121,83 | 109,50 | 49,76 | 15,81 | 16,46 |
| 812 | Female | 54 | Radius | Fat | 0 | 0 | 177,83 | 145,33 | 123,00 | 58,78 | 11,08 | 20,07 |
| 813 | Female | 54 | Radius | Fat | 0 | 0 | 183,50 | 145,83 | 124,84 | 59,01 | 14,46 | 21,55 |
| 814 | Female | 81 | Humerus | Air | 0 | 0 | 159,17 | 118,83 | 90,00 | 48,25 | 16,55 | 28,22 |

Table s9. Raw data of the learning set (20/20)

| ID nr | Sex | Age | Skeletal element | Medium | Temp. (°C) | Time (min.) | R | G | B | L* | A* | B* |
|-------|--------|-----|------------------|--------|------------|-------------|--------|--------|--------|-------|-------|-------|
| 815 | Female | 81 | Radius | Fat | 0 | 0 | 149,00 | 115,16 | 91,84 | 46,35 | 13,23 | 23,14 |
| 816 | Female | 81 | Ulna | Air | 0 | 0 | 164,83 | 125,16 | 98,17 | 51,33 | 16,06 | 26,47 |
| 817 | Female | 81 | Humerus | Fat | 0 | 0 | 155,67 | 120,66 | 91,50 | 48,21 | 13,40 | 26,86 |
| 818 | Female | 81 | Radius | Air | 0 | 0 | 152,00 | 114,50 | 88,50 | 49,54 | 12,60 | 24,95 |
| 819 | Female | 81 | Ulna | Fat | 0 | 0 | 160,17 | 106,66 | 98,50 | 50,29 | 14,69 | 24,87 |
| 820 | Female | 81 | Humerus | Air | 0 | 0 | 152,83 | 112,33 | 84,67 | 49,11 | 13,24 | 25,57 |
| 821 | Female | 81 | Radius | Fat | 0 | 0 | 152,83 | 115,66 | 89,67 | 47,20 | 14,82 | 25,31 |
| 822 | Female | 81 | Ulna | Air | 0 | 0 | 153,33 | 118,83 | 93,84 | 47,31 | 13,64 | 24,13 |
| 823 | Female | 81 | Humerus | Fat | 0 | 0 | 154,33 | 118,16 | 94,50 | 46,60 | 13,88 | 22,91 |
| 824 | Female | 81 | Radius | Air | 0 | 0 | 151,67 | 116,83 | 87,67 | 41,66 | 14,82 | 26,80 |
| 825 | Female | 81 | Ulna | Fat | 0 | 0 | 154,00 | 119,16 | 95,00 | 48,29 | 13,56 | 23,86 |
| 826 | Female | 81 | Humerus | Air | 0 | 0 | 168,83 | 135,16 | 108,34 | 53,57 | 12,48 | 24,40 |
| 827 | Female | 81 | Radius | Fat | 0 | 0 | 152,67 | 118,00 | 91,50 | 47,52 | 15,25 | 25,37 |
| 828 | Female | 81 | Ulna | Air | 0 | 0 | 157,67 | 120,83 | 94,34 | 42,40 | 14,54 | 25,71 |
| 829 | Female | 81 | Humerus | Fat | 0 | 0 | 162,67 | 123,83 | 98,00 | 50,58 | 15,62 | 25,50 |
| 830 | Female | 81 | Radius | Air | 0 | 0 | 155,00 | 96,00 | 86,67 | 50,05 | 14,29 | 25,30 |
| 831 | Female | 81 | Humerus | Fat | 0 | 0 | 148,17 | 89,33 | 79,84 | 45,93 | 15,65 | 23,11 |
| 832 | Female | 81 | Radius | Air | 0 | 0 | 139,67 | 103,50 | 79,84 | 41,53 | 12,35 | 21,43 |
| 833 | Female | 81 | Ulna | Fat | 0 | 0 | 162,33 | 119,83 | 95,50 | 53,05 | 14,13 | 23,63 |

Table s10. Raw data of the test set (1/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 1 | Scanner HP | 4mm | - | 0 | - | 76,085 | 20,19 |
| 2 | Scanner HP | 4mm | - | 0 | - | 66 | 21,551 |
| 3 | Scanner HP | 4mm | - | 0 | - | 68,849 | 22,413 |
| 4 | Scanner HP | 4mm | - | 0 | - | 67,61 | 24,974 |
| 5 | Scanner HP | 4mm | - | 0 | - | 64,593 | 23,58 |
| 6 | Scanner HP | 4mm | Air | 100 | 10 | 77,706 | 22,219 |
| 7 | Scanner HP | 4mm | Air | 100 | 10 | 68,217 | 23,277 |
| 8 | Scanner HP | 4mm | Air | 100 | 10 | 69,079 | 19,182 |
| 9 | Scanner HP | 4mm | Air | 100 | 10 | 67,412 | 23,1 |
| 10 | Scanner HP | 4mm | Air | 100 | 10 | 74,112 | 23,073 |
| 11 | Scanner HP | 4mm | Air | 100 | 20 | 73,775 | 21,635 |
| 12 | Scanner HP | 4mm | Air | 100 | 20 | 66,766 | 21,969 |
| 13 | Scanner HP | 4mm | Air | 100 | 20 | 68,101 | 20,613 |
| 14 | Scanner HP | 4mm | Air | 100 | 20 | 72,023 | 20,685 |
| 15 | Scanner HP | 4mm | Air | 100 | 20 | 71,368 | 21,878 |
| 16 | Scanner HP | 4mm | Air | 100 | 30 | 73,287 | 20,535 |
| 17 | Scanner HP | 4mm | Air | 100 | 30 | 75,525 | 21,681 |
| 18 | Scanner HP | 4mm | Air | 100 | 30 | 71,007 | 21,653 |
| 19 | Scanner HP | 4mm | Air | 100 | 30 | 71,29 | 20,526 |
| 20 | Scanner HP | 4mm | Air | 100 | 30 | 64,513 | 22,445 |

Table s10. Raw data of the test set (2/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 21 | Scanner HP | 4mm | Fat | 100 | 20 | 63,006 | 20,182 |
| 22 | Scanner HP | 4mm | Fat | 100 | 20 | 61,425 | 21,652 |
| 23 | Scanner HP | 4mm | Fat | 100 | 20 | 61,878 | 22,076 |
| 24 | Scanner HP | 4mm | Fat | 100 | 20 | 58,8 | 23,055 |
| 25 | Scanner HP | 4mm | Fat | 100 | 20 | 56,776 | 18,461 |
| 26 | Scanner HP | 4mm | Fat | 100 | 30 | 58,422 | 22,756 |
| 27 | Scanner HP | 4mm | Fat | 100 | 30 | 58,047 | 19,089 |
| 28 | Scanner HP | 4mm | Fat | 100 | 30 | 60,859 | 21,901 |
| 29 | Scanner HP | 4mm | Fat | 100 | 30 | 63,249 | 22,321 |
| 30 | Scanner HP | 4mm | Fat | 100 | 30 | 63,563 | 20,031 |
| 31 | Scanner HP | 4mm | Air | 250 | 10 | 72,414 | 20,03 |
| 32 | Scanner HP | 4mm | Air | 250 | 10 | 68,275 | 19,198 |
| 33 | Scanner HP | 4mm | Air | 250 | 10 | 76,588 | 19,065 |
| 34 | Scanner HP | 4mm | Air | 250 | 10 | 74,772 | 19,655 |
| 35 | Scanner HP | 4mm | Air | 250 | 10 | 80,621 | 19,585 |
| 36 | Scanner HP | 4mm | Air | 250 | 20 | 72,29 | 23,836 |
| 37 | Scanner HP | 4mm | Air | 250 | 20 | 65,63 | 28,426 |
| 38 | Scanner HP | 4mm | Air | 250 | 20 | 64,638 | 25,937 |
| 39 | Scanner HP | 4mm | Air | 250 | 20 | 67,047 | 27,494 |
| 40 | Scanner HP | 4mm | Air | 250 | 20 | 74,663 | 22,208 |
| 41 | Scanner HP | 4mm | Air | 250 | 30 | 50,487 | 28,065 |
| 42 | Scanner HP | 4mm | Air | 250 | 30 | 59,745 | 29,75 |
| 43 | Scanner HP | 4mm | Air | 250 | 30 | 49,892 | 24,582 |
| 44 | Scanner HP | 4mm | Air | 250 | 30 | 58,066 | 28,582 |
| 45 | Scanner HP | 4mm | Air | 250 | 30 | 53,032 | 26,843 |
| 46 | Scanner HP | 4mm | Fat | 250 | 20 | 62,595 | 20,737 |
| 47 | Scanner HP | 4mm | Fat | 250 | 20 | 57 | 20,392 |
| 48 | Scanner HP | 4mm | Fat | 250 | 20 | 54,152 | 18,292 |
| 49 | Scanner HP | 4mm | Fat | 250 | 20 | 62,832 | 20,475 |
| 50 | Scanner HP | 4mm | Fat | 250 | 20 | 56,978 | 20,7 |
| 51 | Scanner HP | 4mm | Fat | 250 | 30 | 59,879 | 21,26 |
| 52 | Scanner HP | 4mm | Fat | 250 | 30 | 59,19 | 20,545 |
| 53 | Scanner HP | 4mm | Fat | 250 | 30 | 62,395 | 18,56 |
| 54 | Scanner HP | 4mm | Fat | 250 | 30 | 53,511 | 18,167 |
| 55 | Scanner HP | 4mm | Fat | 250 | 30 | 53,851 | 19,726 |
| 56 | Scanner HP | 4mm | Air | 300 | 10 | 65,943 | 27,76 |
| 57 | Scanner HP | 4mm | Air | 300 | 10 | 64,362 | 28,878 |
| 58 | Scanner HP | 4mm | Air | 300 | 10 | 58,058 | 30,254 |
| 59 | Scanner HP | 4mm | Air | 300 | 10 | 58,153 | 28,038 |
| 60 | Scanner HP | 4mm | Air | 300 | 10 | 58,637 | 27,483 |
| 61 | Scanner HP | 4mm | Air | 300 | 20 | 29,432 | 4,544 |
| 62 | Scanner HP | 4mm | Air | 300 | 20 | 29,691 | 6,834 |
| 63 | Scanner HP | 4mm | Air | 300 | 20 | 25,396 | 4,835 |

Table s10. Raw data of the test set (3/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 64 | Scanner HP | 4mm | Air | 300 | 20 | 31,022 | 7,798 |
| 65 | Scanner HP | 4mm | Air | 300 | 20 | 31,379 | 11,716 |
| 66 | Scanner HP | 4mm | Air | 300 | 30 | 28,95 | 8,386 |
| 67 | Scanner HP | 4mm | Air | 300 | 30 | 28,752 | 9,618 |
| 68 | Scanner HP | 4mm | Air | 300 | 30 | 30,088 | 11,381 |
| 69 | Scanner HP | 4mm | Air | 300 | 30 | 33,766 | 11,316 |
| 70 | Scanner HP | 4mm | Air | 300 | 30 | 30,63 | 8,871 |
| 71 | Scanner HP | 4mm | Fat | 300 | 20 | 61 | 21,531 |
| 72 | Scanner HP | 4mm | Fat | 300 | 20 | 52,405 | 20,846 |
| 73 | Scanner HP | 4mm | Fat | 300 | 20 | 58,438 | 19,196 |
| 74 | Scanner HP | 4mm | Fat | 300 | 20 | 59,46 | 22,638 |
| 75 | Scanner HP | 4mm | Fat | 300 | 20 | 54,424 | 20,213 |
| 76 | Scanner HP | 4mm | Fat | 300 | 30 | 56,088 | 21,671 |
| 77 | Scanner HP | 4mm | Fat | 300 | 30 | 62,239 | 24,576 |
| 78 | Scanner HP | 4mm | Fat | 300 | 30 | 54,597 | 24,762 |
| 79 | Scanner HP | 4mm | Fat | 300 | 30 | 50,722 | 21,189 |
| 80 | Scanner HP | 4mm | Fat | 300 | 30 | 64,181 | 24,561 |
| 81 | Scanner HP | 4mm | Air | 450 | 10 | 19,548 | -0,305 |
| 82 | Scanner HP | 4mm | Air | 450 | 10 | 18 | -0,752 |
| 83 | Scanner HP | 4mm | Air | 450 | 10 | 18,783 | -0,331 |
| 84 | Scanner HP | 4mm | Air | 450 | 10 | 19,767 | -0,588 |
| 85 | Scanner HP | 4mm | Air | 450 | 10 | 20,908 | -0,676 |
| 86 | Scanner HP | 4mm | Air | 450 | 20 | 27,976 | -0,991 |
| 87 | Scanner HP | 4mm | Air | 450 | 20 | 29,804 | -1,159 |
| 88 | Scanner HP | 4mm | Air | 450 | 20 | 32,901 | -0,127 |
| 89 | Scanner HP | 4mm | Air | 450 | 20 | 29,291 | -0,901 |
| 90 | Scanner HP | 4mm | Air | 450 | 20 | 29,022 | -0,91 |
| 91 | Scanner HP | 4mm | Air | 450 | 30 | 46,388 | 9,25 |
| 92 | Scanner HP | 4mm | Air | 450 | 30 | 26,969 | 2,116 |
| 93 | Scanner HP | 4mm | Air | 450 | 30 | 35,997 | 4,665 |
| 94 | Scanner HP | 4mm | Air | 450 | 30 | 35,538 | -0,421 |
| 95 | Scanner HP | 4mm | Air | 450 | 30 | 34,308 | 1,971 |
| 96 | Scanner HP | 4mm | Air | 500 | 10 | 30,447 | -0,534 |
| 97 | Scanner HP | 4mm | Air | 500 | 10 | 20,845 | -1,1 |
| 98 | Scanner HP | 4mm | Air | 500 | 10 | 29,892 | -1,262 |
| 99 | Scanner HP | 4mm | Air | 500 | 10 | 21,972 | -0,727 |
| 100 | Scanner HP | 4mm | Air | 500 | 10 | 28,023 | 0,269 |
| 101 | Scanner HP | 4mm | Air | 500 | 20 | 46,458 | 6,429 |
| 102 | Scanner HP | 4mm | Air | 500 | 20 | 45,039 | 6,974 |
| 103 | Scanner HP | 4mm | Air | 500 | 20 | 42,134 | 5,912 |
| 104 | Scanner HP | 4mm | Air | 500 | 20 | 39,855 | 4,509 |
| 105 | Scanner HP | 4mm | Air | 500 | 20 | 45,652 | 6,413 |
| 106 | Scanner HP | 4mm | Air | 500 | 30 | 46,141 | 5,01 |
| 107 | Scanner HP | 4mm | Air | 500 | 30 | 44,487 | 6,508 |

Table s10. Raw data of the test set (4/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 108 | Scanner HP | 4mm | Air | 500 | 30 | 45,381 | 6,152 |
| 109 | Scanner HP | 4mm | Air | 500 | 30 | 40,012 | 4,253 |
| 110 | Scanner HP | 4mm | Air | 500 | 30 | 39,669 | 3,981 |
| 111 | Scanner HP | 4mm | Air | 650 | 10 | 36,617 | 0,667 |
| 112 | Scanner HP | 4mm | Air | 650 | 10 | 37,462 | 1,225 |
| 113 | Scanner HP | 4mm | Air | 650 | 10 | 35,317 | 0,905 |
| 114 | Scanner HP | 4mm | Air | 650 | 10 | 39,893 | 0,732 |
| 115 | Scanner HP | 4mm | Air | 650 | 10 | 34,459 | 0,894 |
| 116 | Scanner HP | 4mm | Air | 650 | 20 | 46,604 | 1,57 |
| 117 | Scanner HP | 4mm | Air | 650 | 20 | 43,951 | 0,832 |
| 118 | Scanner HP | 4mm | Air | 650 | 20 | 41,328 | 1,668 |
| 119 | Scanner HP | 4mm | Air | 650 | 20 | 42,518 | 0,982 |
| 120 | Scanner HP | 4mm | Air | 650 | 20 | 37,395 | 1,034 |
| 121 | Scanner HP | 4mm | Air | 650 | 30 | 55,767 | 2,623 |
| 122 | Scanner HP | 4mm | Air | 650 | 30 | 60,037 | 0,827 |
| 123 | Scanner HP | 4mm | Air | 650 | 30 | 66,984 | 2,569 |
| 124 | Scanner HP | 4mm | Air | 650 | 30 | 59,054 | 0,874 |
| 125 | Scanner HP | 4mm | Air | 650 | 30 | 54,968 | 1,065 |
| 126 | Scanner HP | 4mm | Air | 700 | 10 | 62,189 | -0,457 |
| 127 | Scanner HP | 4mm | Air | 700 | 10 | 56,836 | -1,37 |
| 128 | Scanner HP | 4mm | Air | 700 | 10 | 37,599 | -0,329 |
| 129 | Scanner HP | 4mm | Air | 700 | 10 | 53,305 | -0,753 |
| 130 | Scanner HP | 4mm | Air | 700 | 10 | 43,083 | -0,921 |
| 131 | Scanner HP | 4mm | Air | 700 | 20 | 94,656 | -1,364 |
| 132 | Scanner HP | 4mm | Air | 700 | 20 | 89,987 | -0,648 |
| 133 | Scanner HP | 4mm | Air | 700 | 20 | 95,432 | -0,686 |
| 134 | Scanner HP | 4mm | Air | 700 | 20 | 91,922 | -1,553 |
| 135 | Scanner HP | 4mm | Air | 700 | 20 | 90,143 | -1,272 |
| 136 | Scanner HP | 4mm | Air | 700 | 30 | 74,121 | -0,36 |
| 137 | Scanner HP | 4mm | Air | 700 | 30 | 95,229 | -0,931 |
| 138 | Scanner HP | 4mm | Air | 700 | 30 | 63,838 | 1,153 |
| 139 | Scanner HP | 4mm | Air | 700 | 30 | 84,667 | -0,903 |
| 140 | Scanner HP | 4mm | Air | 700 | 30 | 93,877 | -1,278 |
| 141 | Scanner HP | 4mm | Air | 850 | 10 | 94,191 | -0,692 |
| 142 | Scanner HP | 4mm | Air | 850 | 10 | 98,437 | -1,22 |
| 143 | Scanner HP | 4mm | Air | 850 | 10 | 92,929 | -0,223 |
| 144 | Scanner HP | 4mm | Air | 850 | 10 | 98,573 | -0,702 |
| 145 | Scanner HP | 4mm | Air | 850 | 10 | 91,861 | -0,3 |
| 146 | Scanner HP | 4mm | Air | 850 | 20 | 99,17 | -1,852 |
| 147 | Scanner HP | 4mm | Air | 850 | 20 | 98,242 | -1,216 |
| 148 | Scanner HP | 4mm | Air | 850 | 20 | 99,5 | -1,728 |
| 149 | Scanner HP | 4mm | Air | 850 | 20 | 99,661 | -2,3 |
| 150 | Scanner HP | 4mm | Air | 850 | 20 | 98,362 | -2,275 |
| 151 | Scanner HP | 4mm | Air | 850 | 30 | 98,754 | -1,435 |

Table s10. Raw data of the test set (5/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 152 | Scanner HP | 4mm | Air | 850 | 30 | 99,104 | -1,116 |
| 153 | Scanner HP | 4mm | Air | 850 | 30 | 99,11 | -1,239 |
| 154 | Scanner HP | 4mm | Air | 850 | 30 | 98,544 | -1,528 |
| 155 | Scanner HP | 4mm | Air | 850 | 30 | 99,457 | -1,825 |
| 156 | Scanner HP | 4mm | Air | 100 | 50 | 63,403 | 19,081 |
| 157 | Scanner HP | 4mm | Air | 100 | 50 | 65,047 | 17,288 |
| 158 | Scanner HP | 4mm | Air | 100 | 50 | 53,424 | 18,497 |
| 159 | Scanner HP | 4mm | Air | 100 | 50 | 63,554 | 18,894 |
| 160 | Scanner HP | 4mm | Air | 100 | 50 | 74,143 | 18,96 |
| 161 | Scanner HP | 4mm | Air | 250 | 50 | 55,486 | 22,952 |
| 162 | Scanner HP | 4mm | Air | 250 | 50 | 68,408 | 24,978 |
| 163 | Scanner HP | 4mm | Air | 250 | 50 | 55,768 | 24,226 |
| 164 | Scanner HP | 4mm | Air | 250 | 50 | 59,38 | 27,101 |
| 165 | Scanner HP | 4mm | Air | 250 | 50 | 62,744 | 25,992 |
| 166 | Scanner HP | 4mm | Air | 300 | 50 | 28,646 | 9,655 |
| 167 | Scanner HP | 4mm | Air | 300 | 50 | 28,738 | -0,092 |
| 168 | Scanner HP | 4mm | Air | 300 | 50 | 26,281 | -0,435 |
| 169 | Scanner HP | 4mm | Air | 300 | 50 | 25,381 | -0,106 |
| 170 | Scanner HP | 4mm | Air | 300 | 50 | 33,659 | -0,646 |
| 171 | Scanner HP | 4mm | Air | 350 | 50 | 29,42 | -1,058 |
| 172 | Scanner HP | 4mm | Air | 350 | 50 | 33,266 | -1,285 |
| 173 | Scanner HP | 4mm | Air | 350 | 50 | 40,203 | -0,584 |
| 174 | Scanner HP | 4mm | Air | 350 | 50 | 38,333 | -0,484 |
| 175 | Scanner HP | 4mm | Air | 350 | 50 | 36,704 | -0,758 |
| 176 | Scanner HP | 4mm | Air | 450 | 50 | 34,014 | 0,046 |
| 177 | Scanner HP | 4mm | Air | 450 | 50 | 34,515 | -0,431 |
| 178 | Scanner HP | 4mm | Air | 450 | 50 | 39,656 | 4,711 |
| 179 | Scanner HP | 4mm | Air | 450 | 50 | 40,09 | 0,829 |
| 180 | Scanner HP | 4mm | Air | 450 | 50 | 39,63 | -0,582 |
| 181 | Scanner HP | 4mm | Air | 500 | 50 | 50,309 | 7,475 |
| 182 | Scanner HP | 4mm | Air | 500 | 50 | 47,049 | 7,103 |
| 183 | Scanner HP | 4mm | Air | 500 | 50 | 50,131 | 7,33 |
| 184 | Scanner HP | 4mm | Air | 500 | 50 | 46,967 | 6,363 |
| 185 | Scanner HP | 4mm | Air | 500 | 50 | 49,841 | 6,47 |
| 186 | Scanner HP | 4mm | Air | 600 | 50 | 47,803 | 5,6 |
| 187 | Scanner HP | 4mm | Air | 600 | 50 | 45,663 | 2,758 |
| 188 | Scanner HP | 4mm | Air | 600 | 50 | 46,318 | 3,268 |
| 189 | Scanner HP | 4mm | Air | 600 | 50 | 42,252 | 3,427 |
| 190 | Scanner HP | 4mm | Air | 600 | 50 | 43,138 | 3,47 |
| 191 | Scanner HP | 4mm | Air | 650 | 50 | 82,816 | 0,315 |
| 192 | Scanner HP | 4mm | Air | 650 | 50 | 77,679 | 0,945 |
| 193 | Scanner HP | 4mm | Air | 650 | 50 | 64,181 | 2,939 |
| 194 | Scanner HP | 4mm | Air | 650 | 50 | 64,022 | 3,325 |
| 195 | Scanner HP | 4mm | Air | 650 | 50 | 72,366 | 1,746 |

Table s10. Raw data of the test set (6/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|---------|--------|------------|-------------|--------|--------|
| 196 | Scanner HP | 4mm | Air | 700 | 50 | 97,611 | -1,951 |
| 197 | Scanner HP | 4mm | Air | 700 | 50 | 98,74 | -2,443 |
| 198 | Scanner HP | 4mm | Air | 700 | 50 | 97,751 | 0,24 |
| 199 | Scanner HP | 4mm | Air | 700 | 50 | 98,44 | -0,956 |
| 200 | Scanner HP | 4mm | Air | 700 | 50 | 99,089 | -0,963 |
| 201 | Scanner HP | 4mm | Air | 850 | 50 | 97,304 | 2,901 |
| 202 | Scanner HP | 4mm | Air | 850 | 50 | 96,971 | 1,378 |
| 203 | Scanner HP | 4mm | Air | 850 | 50 | 97,354 | 0,804 |
| 204 | Scanner HP | 4mm | Air | 850 | 50 | 98,307 | 1,992 |
| 205 | Scanner HP | 4mm | Air | 850 | 50 | 97,499 | 0,569 |
| 206 | Scanner HP | 40-80mm | Air | 100 | 30 | 76,302 | 18,506 |
| 207 | Scanner HP | 40-80mm | Air | 100 | 30 | 80,909 | 19,067 |
| 208 | Scanner HP | 40-80mm | Air | 100 | 30 | 57,591 | 15,147 |
| 209 | Scanner HP | 40-80mm | Air | 100 | 30 | 66,942 | 16,154 |
| 210 | Scanner HP | 40-80mm | Air | 100 | 30 | 68,15 | 13,923 |
| 211 | Scanner HP | 40-80mm | Air | 250 | 30 | 73,124 | 14,36 |
| 212 | Scanner HP | 40-80mm | Air | 250 | 30 | 84,052 | 11,522 |
| 213 | Scanner HP | 40-80mm | Air | 250 | 30 | 70,769 | 13,521 |
| 214 | Scanner HP | 40-80mm | Air | 250 | 30 | 76,136 | 11,653 |
| 215 | Scanner HP | 40-80mm | Air | 250 | 30 | 68,959 | 10,823 |
| 216 | Scanner HP | 40-80mm | Air | 300 | 30 | 45,132 | 17,037 |
| 217 | Scanner HP | 40-80mm | Air | 300 | 30 | 24,56 | 2,943 |
| 218 | Scanner HP | 40-80mm | Air | 300 | 30 | 23,747 | 7,313 |
| 219 | Scanner HP | 40-80mm | Air | 300 | 30 | 25,502 | 3,709 |
| 220 | Scanner HP | 40-80mm | Air | 300 | 30 | 40,232 | 15,453 |
| 221 | Scanner HP | 40-80mm | Air | 350 | 30 | 16,141 | -1,739 |
| 222 | Scanner HP | 40-80mm | Air | 350 | 30 | 19,637 | -1,813 |
| 223 | Scanner HP | 40-80mm | Air | 350 | 30 | 18,127 | -1,776 |
| 224 | Scanner HP | 40-80mm | Air | 350 | 30 | 15,506 | -1,903 |
| 225 | Scanner HP | 40-80mm | Air | 350 | 30 | 19,065 | -1,679 |
| 226 | Scanner HP | 40-80mm | Air | 450 | 30 | 27,093 | -1,234 |
| 227 | Scanner HP | 40-80mm | Air | 450 | 30 | 36,358 | -0,409 |
| 228 | Scanner HP | 40-80mm | Air | 450 | 30 | 40,298 | 1,238 |
| 229 | Scanner HP | 40-80mm | Air | 450 | 30 | 40,675 | 1,635 |
| 230 | Scanner HP | 40-80mm | Air | 450 | 30 | 37,716 | 0,233 |
| 231 | Scanner HP | 40-80mm | Air | 500 | 30 | 51,533 | 4,945 |
| 232 | Scanner HP | 40-80mm | Air | 500 | 30 | 55,231 | 4,165 |
| 233 | Scanner HP | 40-80mm | Air | 500 | 30 | 51,726 | 5,662 |
| 234 | Scanner HP | 40-80mm | Air | 500 | 30 | 51,871 | 6,205 |
| 235 | Scanner HP | 40-80mm | Air | 500 | 30 | 50,697 | 6,453 |
| 236 | Scanner HP | 40-80mm | Air | 600 | 30 | 55,898 | 0,576 |
| 237 | Scanner HP | 40-80mm | Air | 600 | 30 | 53,162 | 2,674 |
| 238 | Scanner HP | 40-80mm | Air | 600 | 30 | 54,68 | 3,098 |
| 239 | Scanner HP | 40-80mm | Air | 600 | 30 | 52,411 | 2,354 |

Table s10. Raw data of the test set (7/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|---------|--------|------------|-------------|--------|--------|
| 240 | Scanner HP | 40-80mm | Air | 600 | 30 | 53,993 | 1,734 |
| 241 | Scanner HP | 40-80mm | Air | 650 | 30 | 81,605 | -0,191 |
| 242 | Scanner HP | 40-80mm | Air | 650 | 30 | 68,484 | 0,379 |
| 243 | Scanner HP | 40-80mm | Air | 650 | 30 | 72,627 | 0,924 |
| 244 | Scanner HP | 40-80mm | Air | 650 | 30 | 70,545 | 0,241 |
| 245 | Scanner HP | 40-80mm | Air | 650 | 30 | 75,704 | 1,269 |
| 246 | Scanner HP | 40-80mm | Air | 700 | 30 | 79,437 | -1,581 |
| 247 | Scanner HP | 40-80mm | Air | 700 | 30 | 78,434 | 0,045 |
| 248 | Scanner HP | 40-80mm | Air | 700 | 30 | 70,919 | -5,253 |
| 249 | Scanner HP | 40-80mm | Air | 700 | 30 | 93,412 | -0,173 |
| 250 | Scanner HP | 40-80mm | Air | 700 | 30 | 81,749 | -0,459 |
| 251 | Scanner HP | 40-80mm | Air | 850 | 30 | 84 | 4,031 |
| 252 | Scanner HP | 40-80mm | Air | 850 | 30 | 90,557 | 2,254 |
| 253 | Scanner HP | 40-80mm | Air | 850 | 30 | 86,782 | 5,053 |
| 254 | Scanner HP | 40-80mm | Air | 850 | 30 | 96,389 | 1,836 |
| 255 | Scanner HP | 40-80mm | Air | 850 | 30 | 95,989 | 2,326 |
| 256 | Scanner HP | 4mm | Air | 100 | 5 | 50,83 | 15,730 |
| 257 | Scanner HP | 4mm | Air | 100 | 5 | 49,86 | 14,588 |
| 258 | Scanner HP | 4mm | Air | 100 | 5 | 46,77 | 17,073 |
| 259 | Scanner HP | 4mm | Air | 100 | 5 | 45,76 | 14,750 |
| 260 | Scanner HP | 4mm | Air | 100 | 5 | 46,83 | 16,428 |
| 261 | Scanner HP | 4mm | Air | 250 | 5 | 54,99 | 14,017 |
| 262 | Scanner HP | 4mm | Air | 250 | 5 | 57,02 | 14,205 |
| 263 | Scanner HP | 4mm | Air | 250 | 5 | 54,80 | 14,102 |
| 264 | Scanner HP | 4mm | Air | 250 | 5 | 54,52 | 11,848 |
| 265 | Scanner HP | 4mm | Air | 250 | 5 | 58,30 | 14,135 |
| 266 | Scanner HP | 4mm | Air | 300 | 5 | 57,78 | 13,480 |
| 267 | Scanner HP | 4mm | Air | 300 | 5 | 54,80 | 17,457 |
| 268 | Scanner HP | 4mm | Air | 300 | 5 | 59,38 | 15,858 |
| 269 | Scanner HP | 4mm | Air | 300 | 5 | 53,52 | 13,697 |
| 270 | Scanner HP | 4mm | Air | 300 | 5 | 57,14 | 15,437 |
| 271 | Scanner HP | 4mm | Air | 350 | 5 | 57,23 | 16,183 |
| 272 | Scanner HP | 4mm | Air | 350 | 5 | 62,48 | 16,512 |
| 273 | Scanner HP | 4mm | Air | 350 | 5 | 55,23 | 18,957 |
| 274 | Scanner HP | 4mm | Air | 350 | 5 | 52,46 | 19,987 |
| 275 | Scanner HP | 4mm | Air | 350 | 5 | 51,72 | 18,133 |
| 276 | Scanner HP | 4mm | Air | 450 | 5 | 19,49 | -3,457 |
| 277 | Scanner HP | 4mm | Air | 450 | 5 | 24,85 | 0,513 |
| 278 | Scanner HP | 4mm | Air | 450 | 5 | 24,76 | -1,368 |
| 279 | Scanner HP | 4mm | Air | 450 | 5 | 23,11 | 0,607 |
| 280 | Scanner HP | 4mm | Air | 450 | 5 | 21,64 | -1,883 |
| 281 | Scanner HP | 4mm | Air | 500 | 5 | 16,15 | -3,753 |
| 282 | Scanner HP | 4mm | Air | 500 | 5 | 21,33 | -3,432 |
| 283 | Scanner HP | 4mm | Air | 500 | 5 | 22,36 | -4,628 |

Table s10. Raw data of the test set (8/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 284 | Scanner HP | 4mm | Air | 500 | 5 | 22,36 | -4,292 |
| 285 | Scanner HP | 4mm | Air | 500 | 5 | 19,19 | -4,110 |
| 286 | Scanner HP | 4mm | Air | 600 | 5 | 18,31 | -3,908 |
| 287 | Scanner HP | 4mm | Air | 600 | 5 | 19,72 | -3,485 |
| 288 | Scanner HP | 4mm | Air | 600 | 5 | 20,84 | -4,207 |
| 289 | Scanner HP | 4mm | Air | 600 | 5 | 23,49 | -2,987 |
| 290 | Scanner HP | 4mm | Air | 600 | 5 | 17,62 | -3,530 |
| 291 | Scanner HP | 4mm | Air | 700 | 5 | 32,42 | -3,467 |
| 292 | Scanner HP | 4mm | Air | 700 | 5 | 30,71 | -2,685 |
| 293 | Scanner HP | 4mm | Air | 700 | 5 | 29,49 | -3,412 |
| 294 | Scanner HP | 4mm | Air | 700 | 5 | 27,40 | -2,598 |
| 295 | Scanner HP | 4mm | Air | 700 | 5 | 26,98 | -2,952 |
| 296 | Scanner HP | 4mm | Air | 800 | 5 | 85,09 | -3,420 |
| 297 | Scanner HP | 4mm | Air | 800 | 5 | 78,08 | -4,370 |
| 298 | Scanner HP | 4mm | Air | 800 | 5 | 86,20 | -4,782 |
| 299 | Scanner HP | 4mm | Air | 800 | 5 | 84,74 | -4,240 |
| 300 | Scanner HP | 4mm | Air | 800 | 5 | 86,48 | -3,808 |
| 301 | Scanner HP | 4mm | Air | 900 | 5 | 93,92 | -4,268 |
| 302 | Scanner HP | 4mm | Air | 900 | 5 | 94,46 | -4,010 |
| 303 | Scanner HP | 4mm | Air | 900 | 5 | 94,48 | -4,318 |
| 304 | Scanner HP | 4mm | Air | 900 | 5 | 92,32 | -4,123 |
| 305 | Scanner HP | 4mm | Air | 900 | 5 | 93,05 | -4,045 |
| 1 | Nikon D700 | 4mm | - | 0 | - | 91,624 | 16,620 |
| 2 | Nikon D700 | 4mm | - | 0 | - | 94,475 | 33,879 |
| 3 | Nikon D700 | 4mm | - | 0 | - | 88,27 | 27,475 |
| 4 | Nikon D700 | 4mm | - | 0 | - | 86,02 | 33,520 |
| 5 | Nikon D700 | 4mm | - | 0 | - | 87,758 | 35,660 |
| 6 | Nikon D700 | 4mm | Air | 100 | 10 | 89,404 | 14,253 |
| 7 | Nikon D700 | 4mm | Air | 100 | 10 | 89,6 | 18,467 |
| 8 | Nikon D700 | 4mm | Air | 100 | 10 | 80,937 | 20,067 |
| 9 | Nikon D700 | 4mm | Air | 100 | 10 | 85,123 | 22,323 |
| 10 | Nikon D700 | 4mm | Air | 100 | 10 | 88,32 | 15,660 |
| 11 | Nikon D700 | 4mm | Air | 100 | 20 | 88,772 | 20,564 |
| 12 | Nikon D700 | 4mm | Air | 100 | 20 | 89,331 | 23,750 |
| 13 | Nikon D700 | 4mm | Air | 100 | 20 | 89,309 | 20,944 |
| 14 | Nikon D700 | 4mm | Air | 100 | 20 | 91,778 | 16,566 |
| 15 | Nikon D700 | 4mm | Air | 100 | 20 | 91,469 | 19,015 |
| 16 | Nikon D700 | 4mm | Air | 100 | 30 | 92,455 | 14,934 |
| 17 | Nikon D700 | 4mm | Air | 100 | 30 | 90,818 | 16,511 |
| 18 | Nikon D700 | 4mm | Air | 100 | 30 | 91,26 | 20,591 |
| 19 | Nikon D700 | 4mm | Air | 100 | 30 | 92,965 | 15,705 |
| 20 | Nikon D700 | 4mm | Air | 100 | 30 | 91,502 | 21,177 |
| 21 | Nikon D700 | 4mm | Fat | 100 | 20 | 86,272 | 39,908 |
| 22 | Nikon D700 | 4mm | Fat | 100 | 20 | 81,948 | 44,937 |

Table s10. Raw data of the test set (9/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 23 | Nikon D700 | 4mm | Fat | 100 | 20 | 87,506 | 32,985 |
| 24 | Nikon D700 | 4mm | Fat | 100 | 20 | 83,149 | 47,538 |
| 25 | Nikon D700 | 4mm | Fat | 100 | 20 | 77,944 | 41,475 |
| 26 | Nikon D700 | 4mm | Fat | 100 | 30 | 79,178 | 38,899 |
| 27 | Nikon D700 | 4mm | Fat | 100 | 30 | 74,682 | 47,234 |
| 28 | Nikon D700 | 4mm | Fat | 100 | 30 | 82,121 | 32,065 |
| 29 | Nikon D700 | 4mm | Fat | 100 | 30 | 87,655 | 31,296 |
| 30 | Nikon D700 | 4mm | Fat | 100 | 30 | 83,347 | 36,106 |
| 31 | Nikon D700 | 4mm | Air | 250 | 10 | 93,474 | 13,978 |
| 32 | Nikon D700 | 4mm | Air | 250 | 10 | 91,888 | 17,453 |
| 33 | Nikon D700 | 4mm | Air | 250 | 10 | 93,928 | 10,873 |
| 34 | Nikon D700 | 4mm | Air | 250 | 10 | 93,408 | 13,377 |
| 35 | Nikon D700 | 4mm | Air | 250 | 10 | 94,083 | 12,607 |
| 36 | Nikon D700 | 4mm | Air | 250 | 20 | 92,669 | 17,582 |
| 37 | Nikon D700 | 4mm | Air | 250 | 20 | 89,206 | 32,598 |
| 38 | Nikon D700 | 4mm | Air | 250 | 20 | 88,765 | 27,192 |
| 39 | Nikon D700 | 4mm | Air | 250 | 20 | 89,522 | 27,807 |
| 40 | Nikon D700 | 4mm | Air | 250 | 20 | 93,146 | 16,078 |
| 41 | Nikon D700 | 4mm | Air | 250 | 30 | 77,358 | 56,114 |
| 42 | Nikon D700 | 4mm | Air | 250 | 30 | 86,041 | 43,211 |
| 43 | Nikon D700 | 4mm | Air | 250 | 30 | 77,637 | 43,525 |
| 44 | Nikon D700 | 4mm | Air | 250 | 30 | 83,486 | 48,088 |
| 45 | Nikon D700 | 4mm | Air | 250 | 30 | 78,738 | 53,198 |
| 46 | Nikon D700 | 4mm | Fat | 250 | 20 | 71,554 | 33,751 |
| 47 | Nikon D700 | 4mm | Fat | 250 | 20 | 72,222 | 38,988 |
| 48 | Nikon D700 | 4mm | Fat | 250 | 20 | 81,815 | 34,255 |
| 49 | Nikon D700 | 4mm | Fat | 250 | 20 | 84,185 | 27,236 |
| 50 | Nikon D700 | 4mm | Fat | 250 | 20 | 84,248 | 34,660 |
| 51 | Nikon D700 | 4mm | Fat | 250 | 30 | 86,015 | 30,985 |
| 52 | Nikon D700 | 4mm | Fat | 250 | 30 | 79,834 | 35,565 |
| 53 | Nikon D700 | 4mm | Fat | 250 | 30 | 77,168 | 37,688 |
| 54 | Nikon D700 | 4mm | Fat | 250 | 30 | 76,382 | 38,797 |
| 55 | Nikon D700 | 4mm | Fat | 250 | 30 | 72,785 | 36,643 |
| 56 | Nikon D700 | 4mm | Air | 300 | 10 | 89,413 | 31,269 |
| 57 | Nikon D700 | 4mm | Air | 300 | 10 | 88,212 | 38,060 |
| 58 | Nikon D700 | 4mm | Air | 300 | 10 | 85,297 | 45,222 |
| 59 | Nikon D700 | 4mm | Air | 300 | 10 | 81,329 | 44,665 |
| 60 | Nikon D700 | 4mm | Air | 300 | 10 | 82,876 | 46,525 |
| 61 | Nikon D700 | 4mm | Air | 300 | 20 | 37,457 | 16,196 |
| 62 | Nikon D700 | 4mm | Air | 300 | 20 | 40,28 | 11,953 |
| 63 | Nikon D700 | 4mm | Air | 300 | 20 | 38,483 | 16,153 |
| 64 | Nikon D700 | 4mm | Air | 300 | 20 | 41,875 | 24,797 |
| 65 | Nikon D700 | 4mm | Air | 300 | 20 | 48,322 | 57,512 |
| 66 | Nikon D700 | 4mm | Air | 300 | 30 | 44,331 | 19,061 |

Table s10. Raw data of the test set (10/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 67 | Nikon D700 | 4mm | Air | 300 | 30 | 40,591 | 24,673 |
| 68 | Nikon D700 | 4mm | Air | 300 | 30 | 44,756 | 32,485 |
| 69 | Nikon D700 | 4mm | Air | 300 | 30 | 46,582 | 23,416 |
| 70 | Nikon D700 | 4mm | Air | 300 | 30 | 37,693 | 21,741 |
| 71 | Nikon D700 | 4mm | Fat | 300 | 20 | 78,051 | 40,426 |
| 72 | Nikon D700 | 4mm | Fat | 300 | 20 | 66,445 | 46,055 |
| 73 | Nikon D700 | 4mm | Fat | 300 | 20 | 68,758 | 36,071 |
| 74 | Nikon D700 | 4mm | Fat | 300 | 20 | 84,147 | 35,352 |
| 75 | Nikon D700 | 4mm | Fat | 300 | 20 | 81,205 | 37,268 |
| 76 | Nikon D700 | 4mm | Fat | 300 | 30 | 75,809 | 38,824 |
| 77 | Nikon D700 | 4mm | Fat | 300 | 30 | 77,518 | 46,305 |
| 78 | Nikon D700 | 4mm | Fat | 300 | 30 | 71,63 | 49,429 |
| 79 | Nikon D700 | 4mm | Fat | 300 | 30 | 68,173 | 39,427 |
| 80 | Nikon D700 | 4mm | Fat | 300 | 30 | 75,81 | 37,051 |
| 81 | Nikon D700 | 4mm | Air | 450 | 10 | 22,682 | -1,748 |
| 82 | Nikon D700 | 4mm | Air | 450 | 10 | 14,269 | -1,019 |
| 83 | Nikon D700 | 4mm | Air | 450 | 10 | 20,331 | 1,365 |
| 84 | Nikon D700 | 4mm | Air | 450 | 10 | 16,064 | -0,527 |
| 85 | Nikon D700 | 4mm | Air | 450 | 10 | 27,549 | -1,635 |
| 86 | Nikon D700 | 4mm | Air | 450 | 20 | 37,398 | -4,620 |
| 87 | Nikon D700 | 4mm | Air | 450 | 20 | 41,702 | -3,943 |
| 88 | Nikon D700 | 4mm | Air | 450 | 20 | 39,034 | -3,323 |
| 89 | Nikon D700 | 4mm | Air | 450 | 20 | 40,293 | -3,976 |
| 90 | Nikon D700 | 4mm | Air | 450 | 20 | 37,568 | -3,527 |
| 91 | Nikon D700 | 4mm | Air | 450 | 30 | 57,596 | 11,078 |
| 92 | Nikon D700 | 4mm | Air | 450 | 30 | 29,312 | 3,089 |
| 93 | Nikon D700 | 4mm | Air | 450 | 30 | 26,018 | 3,470 |
| 94 | Nikon D700 | 4mm | Air | 450 | 30 | 28,408 | -3,373 |
| 95 | Nikon D700 | 4mm | Air | 450 | 30 | 22,729 | -0,698 |
| 96 | Nikon D700 | 4mm | Air | 500 | 10 | 12,002 | -2,701 |
| 97 | Nikon D700 | 4mm | Air | 500 | 10 | 12,622 | -1,411 |
| 98 | Nikon D700 | 4mm | Air | 500 | 10 | 25,885 | -3,235 |
| 99 | Nikon D700 | 4mm | Air | 500 | 10 | 41,973 | 1,665 |
| 100 | Nikon D700 | 4mm | Air | 500 | 10 | 23,078 | -3,155 |
| 101 | Nikon D700 | 4mm | Air | 500 | 20 | 54,213 | 4,621 |
| 102 | Nikon D700 | 4mm | Air | 500 | 20 | 54,49 | 7,662 |
| 103 | Nikon D700 | 4mm | Air | 500 | 20 | 54,988 | 8,512 |
| 104 | Nikon D700 | 4mm | Air | 500 | 20 | 53,555 | 6,150 |
| 105 | Nikon D700 | 4mm | Air | 500 | 20 | 56,482 | 8,330 |
| 106 | Nikon D700 | 4mm | Air | 500 | 30 | 71,699 | 6,031 |
| 107 | Nikon D700 | 4mm | Air | 500 | 30 | 65,703 | 5,787 |
| 108 | Nikon D700 | 4mm | Air | 500 | 30 | 52,329 | 3,444 |
| 109 | Nikon D700 | 4mm | Air | 500 | 30 | 65,999 | 7,142 |
| 110 | Nikon D700 | 4mm | Air | 500 | 30 | 46,918 | 2,257 |

Table s10. Raw data of the test set (11/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 111 | Nikon D700 | 4mm | Air | 650 | 10 | 43,093 | 0,469 |
| 112 | Nikon D700 | 4mm | Air | 650 | 10 | 39,83 | -0,376 |
| 113 | Nikon D700 | 4mm | Air | 650 | 10 | 29,353 | 0,880 |
| 114 | Nikon D700 | 4mm | Air | 650 | 10 | 36,185 | 0,368 |
| 115 | Nikon D700 | 4mm | Air | 650 | 10 | 32,622 | 1,739 |
| 116 | Nikon D700 | 4mm | Air | 650 | 20 | 43,818 | 1,658 |
| 117 | Nikon D700 | 4mm | Air | 650 | 20 | 46,971 | 0,111 |
| 118 | Nikon D700 | 4mm | Air | 650 | 20 | 45,802 | -0,206 |
| 119 | Nikon D700 | 4mm | Air | 650 | 20 | 45,796 | -0,625 |
| 120 | Nikon D700 | 4mm | Air | 650 | 20 | 46,294 | 0,047 |
| 121 | Nikon D700 | 4mm | Air | 650 | 30 | 79,693 | 1,135 |
| 122 | Nikon D700 | 4mm | Air | 650 | 30 | 73,837 | -1,181 |
| 123 | Nikon D700 | 4mm | Air | 650 | 30 | 75,617 | -1,546 |
| 124 | Nikon D700 | 4mm | Air | 650 | 30 | 63,696 | -2,866 |
| 125 | Nikon D700 | 4mm | Air | 650 | 30 | 67,966 | 0,190 |
| 126 | Nikon D700 | 4mm | Air | 700 | 10 | 65,456 | -4,646 |
| 127 | Nikon D700 | 4mm | Air | 700 | 10 | 51,947 | -6,234 |
| 128 | Nikon D700 | 4mm | Air | 700 | 10 | 48,767 | -4,242 |
| 129 | Nikon D700 | 4mm | Air | 700 | 10 | 70,429 | -5,662 |
| 130 | Nikon D700 | 4mm | Air | 700 | 10 | 41,818 | -4,482 |
| 131 | Nikon D700 | 4mm | Air | 700 | 20 | 95,499 | -0,602 |
| 132 | Nikon D700 | 4mm | Air | 700 | 20 | 93,867 | -1,581 |
| 133 | Nikon D700 | 4mm | Air | 700 | 20 | 92,002 | -2,639 |
| 134 | Nikon D700 | 4mm | Air | 700 | 20 | 95,504 | -0,529 |
| 135 | Nikon D700 | 4mm | Air | 700 | 20 | 95,446 | -0,869 |
| 136 | Nikon D700 | 4mm | Air | 700 | 30 | 85,977 | -2,297 |
| 137 | Nikon D700 | 4mm | Air | 700 | 30 | 93,051 | -2,265 |
| 138 | Nikon D700 | 4mm | Air | 700 | 30 | 85,167 | -0,344 |
| 139 | Nikon D700 | 4mm | Air | 700 | 30 | 96,204 | -1,151 |
| 140 | Nikon D700 | 4mm | Air | 700 | 30 | 97,35 | -0,469 |
| 141 | Nikon D700 | 4mm | Air | 850 | 10 | 96,797 | -0,447 |
| 142 | Nikon D700 | 4mm | Air | 850 | 10 | 97,464 | -0,387 |
| 143 | Nikon D700 | 4mm | Air | 850 | 10 | 94,553 | -0,459 |
| 144 | Nikon D700 | 4mm | Air | 850 | 10 | 97,026 | -0,266 |
| 145 | Nikon D700 | 4mm | Air | 850 | 10 | 94,576 | -0,014 |
| 146 | Nikon D700 | 4mm | Air | 850 | 20 | 97,454 | -0,534 |
| 147 | Nikon D700 | 4mm | Air | 850 | 20 | 97,542 | -0,338 |
| 148 | Nikon D700 | 4mm | Air | 850 | 20 | 98,137 | -0,340 |
| 149 | Nikon D700 | 4mm | Air | 850 | 20 | 98,226 | -0,243 |
| 150 | Nikon D700 | 4mm | Air | 850 | 20 | 98,249 | -0,157 |
| 151 | Nikon D700 | 4mm | Air | 850 | 30 | 96,103 | -0,263 |
| 152 | Nikon D700 | 4mm | Air | 850 | 30 | 96,988 | -0,255 |
| 153 | Nikon D700 | 4mm | Air | 850 | 30 | 97,599 | -0,190 |
| 154 | Nikon D700 | 4mm | Air | 850 | 30 | 98,214 | -0,317 |

Table s10. Raw data of the test set (12/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|------|--------|------------|-------------|--------|--------|
| 155 | Nikon D700 | 4mm | Air | 850 | 30 | 98,407 | -0,254 |
| 156 | Nikon D700 | 4mm | Air | 100 | 50 | 82,711 | 21,822 |
| 157 | Nikon D700 | 4mm | Air | 100 | 50 | 80,792 | 21,651 |
| 158 | Nikon D700 | 4mm | Air | 100 | 50 | 67,5 | 30,426 |
| 159 | Nikon D700 | 4mm | Air | 100 | 50 | 69,858 | 26,731 |
| 160 | Nikon D700 | 4mm | Air | 100 | 50 | 87,89 | 16,508 |
| 161 | Nikon D700 | 4mm | Air | 250 | 50 | 69,741 | 42,252 |
| 162 | Nikon D700 | 4mm | Air | 250 | 50 | 86,54 | 28,346 |
| 163 | Nikon D700 | 4mm | Air | 250 | 50 | 72,246 | 45,556 |
| 164 | Nikon D700 | 4mm | Air | 250 | 50 | 71,542 | 47,405 |
| 165 | Nikon D700 | 4mm | Air | 250 | 50 | 68,334 | 41,477 |
| 166 | Nikon D700 | 4mm | Air | 300 | 50 | 21,733 | 15,622 |
| 167 | Nikon D700 | 4mm | Air | 300 | 50 | 11,039 | -1,040 |
| 168 | Nikon D700 | 4mm | Air | 300 | 50 | 17,237 | 1,600 |
| 169 | Nikon D700 | 4mm | Air | 300 | 50 | 10,292 | 3,405 |
| 170 | Nikon D700 | 4mm | Air | 300 | 50 | 5,855 | 0,663 |
| 171 | Nikon D700 | 4mm | Air | 350 | 50 | 32,193 | -3,964 |
| 172 | Nikon D700 | 4mm | Air | 350 | 50 | 35,048 | -2,205 |
| 173 | Nikon D700 | 4mm | Air | 350 | 50 | 34,604 | -1,244 |
| 174 | Nikon D700 | 4mm | Air | 350 | 50 | 22,957 | -1,076 |
| 175 | Nikon D700 | 4mm | Air | 350 | 50 | 24,082 | -0,251 |
| 176 | Nikon D700 | 4mm | Air | 450 | 50 | 36,668 | 3,796 |
| 177 | Nikon D700 | 4mm | Air | 450 | 50 | 23,163 | -0,912 |
| 178 | Nikon D700 | 4mm | Air | 450 | 50 | 29,796 | 2,899 |
| 179 | Nikon D700 | 4mm | Air | 450 | 50 | 25,194 | 0,577 |
| 180 | Nikon D700 | 4mm | Air | 450 | 50 | 13,452 | -0,272 |
| 181 | Nikon D700 | 4mm | Air | 500 | 50 | 42,813 | 9,529 |
| 182 | Nikon D700 | 4mm | Air | 500 | 50 | 39,821 | 8,864 |
| 183 | Nikon D700 | 4mm | Air | 500 | 50 | 46,735 | 9,547 |
| 184 | Nikon D700 | 4mm | Air | 500 | 50 | 31,014 | 9,647 |
| 185 | Nikon D700 | 4mm | Air | 500 | 50 | 45,633 | 8,810 |
| 186 | Nikon D700 | 4mm | Air | 600 | 50 | 54,174 | 5,094 |
| 187 | Nikon D700 | 4mm | Air | 600 | 50 | 41,101 | -1,210 |
| 188 | Nikon D700 | 4mm | Air | 600 | 50 | 51,836 | -1,085 |
| 189 | Nikon D700 | 4mm | Air | 600 | 50 | 58,411 | 2,700 |
| 190 | Nikon D700 | 4mm | Air | 600 | 50 | 48,683 | -0,437 |
| 191 | Nikon D700 | 4mm | Air | 650 | 50 | 93,479 | -0,225 |
| 192 | Nikon D700 | 4mm | Air | 650 | 50 | 92,017 | 0,031 |
| 193 | Nikon D700 | 4mm | Air | 650 | 50 | 86,57 | 0,405 |
| 194 | Nikon D700 | 4mm | Air | 650 | 50 | 86,343 | 0,474 |
| 195 | Nikon D700 | 4mm | Air | 650 | 50 | 91,568 | 0,107 |
| 196 | Nikon D700 | 4mm | Air | 700 | 50 | 96,811 | -0,243 |
| 197 | Nikon D700 | 4mm | Air | 700 | 50 | 98,694 | -0,207 |
| 198 | Nikon D700 | 4mm | Air | 700 | 50 | 98,545 | -0,173 |

Table s10. Raw data of the test set (13/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|---------|--------|------------|-------------|--------|--------|
| 199 | Nikon D700 | 4mm | Air | 700 | 50 | 97,731 | -0,159 |
| 200 | Nikon D700 | 4mm | Air | 700 | 50 | 97,37 | -0,582 |
| 201 | Nikon D700 | 4mm | Air | 850 | 50 | 97,936 | 0,139 |
| 202 | Nikon D700 | 4mm | Air | 850 | 50 | 97,478 | 0,221 |
| 203 | Nikon D700 | 4mm | Air | 850 | 50 | 96,342 | 0,782 |
| 204 | Nikon D700 | 4mm | Air | 850 | 50 | 96,68 | 0,334 |
| 205 | Nikon D700 | 4mm | Air | 850 | 50 | 98,776 | 0,095 |
| 206 | Nikon D700 | 40-80mm | Air | 100 | 30 | 74,461 | 30,068 |
| 207 | Nikon D700 | 40-80mm | Air | 100 | 30 | 73,738 | 31,525 |
| 208 | Nikon D700 | 40-80mm | Air | 100 | 30 | 64,148 | 27,351 |
| 209 | Nikon D700 | 40-80mm | Air | 100 | 30 | 75,996 | 27,072 |
| 210 | Nikon D700 | 40-80mm | Air | 100 | 30 | 71,685 | 27,819 |
| 211 | Nikon D700 | 40-80mm | Air | 250 | 30 | 76,459 | 21,734 |
| 212 | Nikon D700 | 40-80mm | Air | 250 | 30 | 86,319 | 22,737 |
| 213 | Nikon D700 | 40-80mm | Air | 250 | 30 | 72,597 | 23,887 |
| 214 | Nikon D700 | 40-80mm | Air | 250 | 30 | 82,946 | 18,568 |
| 215 | Nikon D700 | 40-80mm | Air | 250 | 30 | 79,02 | 21,678 |
| 216 | Nikon D700 | 40-80mm | Air | 300 | 30 | 52,718 | 33,382 |
| 217 | Nikon D700 | 40-80mm | Air | 300 | 30 | 22,065 | 12,178 |
| 218 | Nikon D700 | 40-80mm | Air | 300 | 30 | 23,388 | 6,093 |
| 219 | Nikon D700 | 40-80mm | Air | 300 | 30 | 18,384 | 6,061 |
| 220 | Nikon D700 | 40-80mm | Air | 300 | 30 | 38,205 | 30,506 |
| 221 | Nikon D700 | 40-80mm | Air | 350 | 30 | 10,179 | -1,720 |
| 222 | Nikon D700 | 40-80mm | Air | 350 | 30 | 5,582 | -0,477 |
| 223 | Nikon D700 | 40-80mm | Air | 350 | 30 | 14,947 | -1,175 |
| 224 | Nikon D700 | 40-80mm | Air | 350 | 30 | 15,88 | -1,381 |
| 225 | Nikon D700 | 40-80mm | Air | 350 | 30 | 14,068 | -2,973 |
| 226 | Nikon D700 | 40-80mm | Air | 450 | 30 | 28,713 | -0,587 |
| 227 | Nikon D700 | 40-80mm | Air | 450 | 30 | 39,266 | -0,599 |
| 228 | Nikon D700 | 40-80mm | Air | 450 | 30 | 33,915 | 0,522 |
| 229 | Nikon D700 | 40-80mm | Air | 450 | 30 | 32,244 | 1,856 |
| 230 | Nikon D700 | 40-80mm | Air | 450 | 30 | 36,528 | 2,579 |
| 231 | Nikon D700 | 40-80mm | Air | 500 | 30 | 52,539 | 1,723 |
| 232 | Nikon D700 | 40-80mm | Air | 500 | 30 | 59,178 | 4,697 |
| 233 | Nikon D700 | 40-80mm | Air | 500 | 30 | 46,532 | 8,306 |
| 234 | Nikon D700 | 40-80mm | Air | 500 | 30 | 47,309 | 5,287 |
| 235 | Nikon D700 | 40-80mm | Air | 500 | 30 | 52,434 | 10,213 |
| 236 | Nikon D700 | 40-80mm | Air | 600 | 30 | 57,002 | 0,006 |
| 237 | Nikon D700 | 40-80mm | Air | 600 | 30 | 48,145 | 2,510 |
| 238 | Nikon D700 | 40-80mm | Air | 600 | 30 | 52,969 | 3,533 |
| 239 | Nikon D700 | 40-80mm | Air | 600 | 30 | 48,474 | 1,565 |
| 240 | Nikon D700 | 40-80mm | Air | 600 | 30 | 53,871 | -0,661 |
| 241 | Nikon D700 | 40-80mm | Air | 650 | 30 | 74,349 | -1,645 |
| 242 | Nikon D700 | 40-80mm | Air | 650 | 30 | 72,068 | -0,852 |

Table s10. Raw data of the test set (14/14)

| ID nr | Device | Size | Medium | Temp. (°C) | Time (min.) | L* | B* |
|-------|------------|---------|--------|------------|-------------|--------|---------|
| 243 | Nikon D700 | 40-80mm | Air | 650 | 30 | 80,706 | -0,816 |
| 244 | Nikon D700 | 40-80mm | Air | 650 | 30 | 72,425 | -1,649 |
| 245 | Nikon D700 | 40-80mm | Air | 650 | 30 | 80,785 | 0,125 |
| 246 | Nikon D700 | 40-80mm | Air | 700 | 30 | 80,951 | -3,028 |
| 247 | Nikon D700 | 40-80mm | Air | 700 | 30 | 78,385 | -1,408 |
| 248 | Nikon D700 | 40-80mm | Air | 700 | 30 | 62,243 | -11,000 |
| 249 | Nikon D700 | 40-80mm | Air | 700 | 30 | 90,694 | 0,209 |
| 250 | Nikon D700 | 40-80mm | Air | 700 | 30 | 77,085 | -2,078 |
| 251 | Nikon D700 | 40-80mm | Air | 850 | 30 | 82 | 2,439 |
| 252 | Nikon D700 | 40-80mm | Air | 850 | 30 | 82,163 | 2,719 |
| 253 | Nikon D700 | 40-80mm | Air | 850 | 30 | 81,495 | 1,856 |
| 254 | Nikon D700 | 40-80mm | Air | 850 | 30 | 92,548 | 1,439 |
| 255 | Nikon D700 | 40-80mm | Air | 850 | 30 | 95,054 | 1,343 |