

Supplemental table 1: concentrations of protein-bound and free amino acids in human milk over the study period

	BAA in ug/L, mean (SD)			FAA in ug/L, mean (SD)		
	p10	p17	p24	p10	p17	p24
Total	11848.6 (1886)	10432.6 (1691)	9798.3 (1757)	302.0 (87.2)	331.2 (79.3)	335.5 (82.6)
Essential	5993.6 (1061)	5362.3 (952)	4949.2 (1025)	53.8 (21.8)	50.6 (18.6)	45.0 (13.1)
Non-essential	5711.5 (827)	5030.8 (742)	4795.5 (751)	214.2 (75.0)	248.8 (71.4)	261.1 (77.7)
Glutamate family	2667.9 (360)	2418.9 (258)	2344.5 (300)	172.5 (63.9)	202.0 (63.5)	215.4 (69.8)
Glx	2233.4 (296)	2015.2 (171)	1963.2 (247)	168.8 (65.4)	198.7 (68.3)	211.9 (74.1)
Arginine	434.5 (128)	403.7 (115)	381.3 (126)	3.6 (2.4)	3.3 (1.5)	3.5 (1.7)
Aspartate family	3230.0 (534)	2753.7 (501)	2624 (504)	21.4 (9.2)	26.0 (11.3)	21.6 (6.2)
Asx	1383.2 (211)	1154.6 (219)	1102.3 (202)	5.2 (3.1)	6.1 (2.9)	6.2 (3.2)
Methionine	207.5 (113)	185.5 (37)	160.0 (33)	1.2 (0.7)	4.8 (6.3)	1.3 (1.1)
Isoleucine	668.3 (111)	612.9 (95)	563.8 (90)	2.2 (1.8)	2.0 (2.0)	1.9 (1.0)
Threonine	652.2 (130)	578.6 (116)	543.7 (132)	9.6 (5.0)	10.9 (5.7)	8.9 (3.3)
Lysine	987.1 (175)	835.0 (147)	817.9 (167)	5.4 (4.5)	4.2 (3.0)	5.2 (3.3)
Serine family	1080.1 (234.9)	957.7 (216)	887.1 (235)	15.5 (6.4)	18.1 (4.9)	18.2 (6.1)
Serine	716.4 (151)	637.8 (138)	588.1 (150)	9.5 (4.3)	11.0 (3.5)	10.7 (4.3)
Glycine	363.7 (86)	319.9 (80)	299.0 (86)	6.0 (2.5)	7.2 (2.0)	7.6 (2.5)
Pyruvate family	3386.6 (575)	3051.1 (513)	2786.8 (558)	43.4 (14.2)	33.6 (12.9)	31.9 (8.6)
Valine	755.9 (151)	700.1 (128)	600.0 (130)	19.1 (5.2)	7.9 (8.0)	6.7 (2.0)
Leucine	1379.3 (220)	1239.1 (199)	1130.6 (270)	4.3 (4.4)	4.6 (5.3)	4.7 (2.6)
Alanine	563.2 (121)	498.4 (109)	472.3 (117)	17.8 (6.7)	19.0 (5.0)	18.6 (5.3)
Aromatic family	1019.4 (207)	910.8 (182)	838.3 (196)	8.0 (4.6)	11.4 (3.8)	11.3 (3.8)
Phenylalanine	567.8 (113)	505.8 (103)	467.6 (109)	3.1 (1.9)	3.3 (2.6)	2.5 (2.0)
Tyrosine	451.6 (101)	404.9 (81)	370.6 (88)	3.7 (2.3)	3.7 (2.1)	3.1 (1.3)
Tryptophan	-	-	-	1.2 (1.6)	4.5 (3.0)	5.6 (1.6)
Histidine family	341.0 (62)	300.9 (56)	284.1 (57)	4.1 (1.7)	5.1 (1.7)	4.6 (2.1)
Histidine	341.0 (62)	300.9 (56)	284.1 (57)	4.1 (1.7)	5.1 (1.7)	4.6 (2.1)

Abbreviations: BAA, protein-bound amino acids. ug/L, microgram per liter. SD, standard deviation.

FAA, free amino acids. p, post-partum day. Glx, sum of glutamic acid + glutamine. Asx, sum of aspartic acid + asparagine.

Protein-bound tryptophan was not measured in the human milk samples.