

Supplemental Table 1: Time-course of plasma amino acid profiles in neonatal pigs after a meal¹

	Time (min)						P value
	0	30	60	90	120	240	
Essential AA	<i>μmol · L⁻¹</i>						
Arg	73 ± 3.5 ^b	95 ± 5.6 ^c	91 ± 5.0 ^c	73 ± 6.5 ^b	62 ± 6.0 ^{ab}	49 ± 6.9 ^a	<0.001
His	49 ± 3.2	55 ± 7.7	55 ± 5.8	52 ± 6.2	55 ± 4.5	31 ± 6.3	0.390
Ile	107 ± 4.8 ^a	153 ± 6.1 ^b	162 ± 5.4 ^b	154 ± 8.1 ^b	165 ± 7.9 ^b	145 ± 7.3 ^b	<0.001
Leu	136 ± 5.0 ^a	208 ± 9.5 ^c	194 ± 10.1 ^{bc}	203 ± 10.6 ^c	195 ± 18.3 ^{bc}	120 ± 14.4 ^{ab}	<0.001
Lys	110 ± 8.4 ^a	150 ± 6.4 ^b	145 ± 7.4 ^b	137 ± 8.6 ^{ab}	132 ± 10.1 ^{ab}	129 ± 17.9 ^{ab}	0.009
Met	41 ± 1.8 ^a	49 ± 2.5 ^b	51 ± 2.5 ^b	48 ± 2.3 ^{ab}	48 ± 6.1 ^{ab}	35 ± 4.1 ^a	0.002
Phe	74 ± 4.0 ^a	91 ± 3.0 ^b	87 ± 3.5 ^{ab}	78 ± 1.5 ^{ab}	94 ± 6.5 ^{ab}	ND ²	0.002
Thr	170 ± 7.5 ^a	232 ± 9.8 ^b	249 ± 14.9 ^b	270 ± 23.9 ^b	262 ± 31.4 ^b	185 ± 19.3 ^{ab}	<0.001
Trp	43 ± 3.9 ^a	57 ± 4.9 ^{ab}	63 ± 6.6 ^{ab}	60 ± 6.9 ^{ab}	82 ± 10.3 ^b	55 ± 8.1 ^{ab}	0.013
Val	208 ± 9.9 ^a	311 ± 12.2 ^b	327 ± 16.7 ^b	276 ± 6.3 ^b	343 ± 27.2 ^b	263 ± 19.5 ^{ab}	<0.001
Non-essential AA							
Ala	185 ± 9.6 ^a	205 ± 14 ^{ab}	245 ± 15.3 ^{ab}	286 ± 21.0 ^b	288 ± 39.3 ^b	187 ± 32.6 ^{ab}	<0.001
Asn	29 ± 1.5 ^a	39 ± 2.5 ^b	49 ± 3.1 ^b	29 ± 4.7 ^a	39 ± 5.6 ^b	21 ± 2.1 ^a	<0.001
Asp	20 ± 1.5 ^a	27 ± 2.1 ^b	29 ± 2.0 ^b	31 ± 2.6 ^{bc}	36 ± 5.3 ^c	16 ± 2.0 ^a	<0.001
Cit	118 ± 8.0 ^a	146 ± 10.3 ^{ab}	169 ± 14.0 ^b	153 ± 8.3 ^{ab}	161 ± 17.1 ^{ab}	127 ± 9.0 ^{ab}	0.012
Gln	343 ± 16.5	380 ± 22	356 ± 26.0	341 ± 31.4	413 ± 39.1	306 ± 57.4	0.475
Glu	94 ± 3.1 ^a	106 ± 5.1 ^a	114 ± 5.2 ^{ab}	136 ± 11.6 ^b	124 ± 18.9 ^{ab}	105 ± 25.0 ^{ab}	0.001
Gly	806 ± 34.4	659 ± 45	703 ± 64.9	702 ± 68.6	517 ± 106.7	604 ± 54.0	0.055
Orn	35 ± 2.0 ^a	43 ± 3.3 ^{ab}	38 ± 4.3 ^{ab}	51 ± 3.4 ^b	47 ± 8.0 ^{ab}	42 ± 2.2 ^{ab}	0.045
Pro	175 ± 7.9 ^a	248 ± 14.0 ^b	251 ± 13.9 ^b	259 ± 20.0 ^b	276 ± 49.7 ^b	155 ± 11.5 ^a	<0.001
Ser	113 ± 5.9	142 ± 8.5	132 ± 9.9	139 ± 12.2	152 ± 28.4	114 ± 10.4	0.058
Tau	45 ± 3.1	43 ± 2.8	44 ± 3.9	30 ± 1.1	28 ± 2.8	26 ± 2.0	0.056
Tyr	65 ± 4.1 ^a	86 ± 4.7 ^b	100 ± 5.7 ^b	98 ± 9.4 ^b	99 ± 4.8 ^b	113 ± 8.7 ^b	<0.001

¹Values are means ± SEM, n = 6-36. Means in a row with superscripts without a common letter differ, P < 0.05. ²No data are available for phenylalanine at 240 min as the bolus dose of [³H] phenylalanine for protein synthesis analysis artificially raised circulating levels of phenylalanine.