

Table 2. Effects of dietary crystalline amino acids (CAA), RAC, and sodium bicarbonate (NaHCO₃) on urine pH, urine volume and blood parameters.

	High Dietary Protein				Crystalline Amino Acids				SEM	CAA	P < RAC	NaHCO ₃
	No RAC ^c		RAC ^c		No RAC ^c		RAC ^c					
	0 % ^d	2.5 % ^d	0 % ^d	2.5 % ^d	0 % ^d	2.5 % ^d	0 % ^d	2.5 % ^d				
Period 3 & 4												
Urine pH	7.86	----	8.11	----	6.84	----	7.35	----	0.13	0.01	0.05	----
Urine volume, ml	7586	----	4302	----	7475	----	5120	----	452	0.17	0.01	----
Blood Parameters												
pH	7.42	----	7.38	----	7.35	----	7.36	----	0.03	0.10	0.62	----
BUN ^a	7.78	----	6.22	----	3.00	----	4.00	----	0.54	0.01	0.68	----
BE ^a	5.78	----	6.41	----	3.96	----	6.33	----	1.05	0.28	0.23	----
HCO ₃ ^{-a}	30.58	----	30.76	----	29.19	----	31.09	----	0.85	0.53	0.25	----
Period 5 & 6												
Urine pH	7.97	8.14	8.08	8.07	7.01	7.58	6.93	7.99	0.19	0.01	0.58	0.01
Urine volume, ml	9810	7969	3879	4329	8272	8833	7703	5211	1274	0.41	0.01	0.82
Blood Parameters												
pH	7.42	7.52	7.35	7.42	7.33	7.39	7.36	7.38	0.04	0.05	0.23	0.01
BUN ^a	7.00	7.50	7.40	8.00	3.00	3.00	3.50	4.00	0.59	0.01	0.30	0.06
BE ^a	7.00	11.75	5.00	11.20	3.60	11.40	3.25	9.00	1.55	0.17	0.34	0.01
HCO ₃ ^{-a}	31.48	34.35	30.88	35.50	29.66	36.50	28.48	34.13	1.28	0.41	0.47	0.01

^aBUN = blood urea nitrogen (mg/dL); BE = base excess (mmol/L); HCO₃⁻ = blood bicarbonate concentrations (mmol/L)

^bStored pH: Approximate 11 hour collection (7 P.M. - 6 A.M. and 7 A.M. - 6 P.M).

^cRAC was added to diet at 0 or 20 mg RAC/kg of diet.

^dNaHCO₃ added to diet at 0 or 2.5 % of diet.