



Supplementary Material

Effect of Essential Amino Acids on Performance of Buffaloes

Nasir Ali Tauqir¹, Asim Faraz^{2*}, Muhammad Arif¹, Abdul Rehman¹,
Imtiaz Hussain¹, Abdul Waheed², Gabriele Marino³ and Michela Pugliese³

¹Department of Animal Sciences, University of Sargodha

²Department of Livestock and Poultry Production, Bahauddin Zakariya University Multan

³Department of Veterinary Sciences, University of Messina, Italy

Supplementary Table I. Ingredients and chemical composition of experimental diets, Gram/ Kg.

Ingredients	HEAA	MEAA	LEAA
Maize Broken	30.00	200.00	150.00
Wheat Straw	450.00	250.00	120.00
Wheat bran	150.00	200.00	300.00
Rice Polishing	10.00	0.00	50.00
Cotton seed cake	60.00	15.00	20.00
Maize oil cake	0.00	0.00	95.00
Maize gluten Meal 30%	83.50	50.00	10.00
Canola meal	10.00	10.00	10.00
Soy bean Meal	48.00	55.00	20.00
Corn steep liquor	60.00	60.00	60.00
Cane Molasses	80.00	142.00	148.00
Mineral Mix	15.00	15.00	15.00
Urea	3.50	3.00	2.00
Chemical Composition, %			
Dry matter	87.62	85.83	85.37
Crude protein	14.02	14.18	14.12
Rumen un-degradable protein	50.31	41.31	32.17
Lysine %CP	3.10	2.43	1.85
Methionine %CP	1.86	1.20	0.95
Treonine %CP	3.20	2.84	1.86
Lysine%of RUP	1.56	1.01	0.60
Methionine %RUP	0.94	0.50	0.31
Threonine %RUP	1.61	1.17	0.60
Neutral detergent fiber	46.87	32.35	30.88
Acid detergent fiber	26.98	17.56	13.86
Acid detergent lignin	5.44	3.35	2.85
Total Ash%	8.89	9.30	9.19
Metabolizable energy Mcal/ kg	2.09	2.22	2.25

HEAA, MEAA and LEAA diets contained high, medium and low essential amino acids concentrations, respectively.

* Corresponding author: drasimfaraz@bzu.edu.pk

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