



Supplementary Material

Comparative Analysis of Nutrients and Mineral Element Contents in Muscles of *Pelodiscus sinensis* Raised in a Paddy Field and on a Factory Farm

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Supplementary Table I. Components of different amino acid of the muscle in the paddy field and factory farm.

Amino acid	Turtle of paddy field	Turtle of factory farm
TEAA/TAA	0.41	0.41
Semi-TEAA/TAA	0.10	0.10
TNEAA/TAA	0.50	0.49
TDAA/TAA	0.41	0.41
TPAA/TAA	0.62	0.62
TEAA/TNETAA	0.82	0.83
TDAA/TPAA	0.66	0.66

*Essential amino acids (EAA); *, semi-essential amino acids (Semi-EAA); #non-essential amino acids (NEAA); □ dilicate amino acids (DAA); \$ Pharmacodynamics amino acids (PAA)

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Supplementary Table II. Components and evaluation of essential amino acid of turtle in the paddy field and factory farm.

Essential amino acid	FAO/WHO standard (mg/g pro)	Whole egg protein standard (mg/g pro)	Turtle of paddy field			Turtle of factory farm		
			Content (mg/g pro)	AAS	CS	Content (mg/g pro)	AAS	CS
Ile	40	54	45.83	1.15	0.85	48.17	1.20**	0.89**
Leu	70	86	88.65	1.27	1.03	85.55	1.22	0.99
Thr	40	47	49.68	1.24	1.06	49.13	1.23	1.05
Phe+Tyr	60	93	77.94	1.30	0.84	79.38	1.32	0.85
Lys	55	70	100.6	1.83	1.44	99.8	1.81	1.43
Val	50	66	49.68	0.99	0.75	52.61	1.05*	0.80*
Met	35	57	24.63	0.70	0.43	29.09	0.83**	0.51**
EAAI				0.86			0.83	