

Technical Bulletin #18

Poultry Amino Acid Digestibility Test by University of Missouri

PRODUCT	LYSINE	METHIONINE	THREONINE	TOTAL ESSENTIAL AMINO ACIDS	TOTAL AMINO ACIDS
DPS 30	89.0	89.0	87.0	89.5	87.0
DPS 45A	89.0	91.0	83.0	90.0	87.0
DPS 45SD	96.0	95.0	94.0	95.3	93.0
DPS 50RD	97.0	96.0	94.0	95.9	93.3

Each value represents percent digestible on AS IS basis

Amino Acid Chain Length Measurements

PRODUCT	<10	10-130	130-330	>330	APPROXIMATE MOLECULAR WEIGHT (IN DALTONS)
CPS 21	40%	40%	10%	10%	8,500 to 9,000
DPS 30	38%	45%	12%	5%	7,250 to 7,750
DPS 45A	30%	48%	11%	11%	9,250 to 9,750
DPS 45SD	38%	49%	10%	3%	6,500 to 7,000
DPS 50RD	29%	51%	12%	8%	8,000 to 8,500

All Values are estimates and are not intended as guaranteed values.

Protein Quality Tests

SAMPLE NO	PRODUCT	CRUDE PROTEIN	PEPSIN DIGESTIBLE PROTEIN	TOTAL LYSINE	AVAILABLE LYSINE	% LYSINE AVAILABLE
1464	CPS 21	24.98	96.90	1.65	1.50	90.91
272	CPS 21	23.63	95.20	1.59	1.47	92.45
1787	DPS 30	32.91	91.20	2.13	2.03	95.31
273	DPS 30	31.57	90.10	1.98	1.84	92.93
1788	DPS 45SD Spray Dried	47.68	92.90	3.18	3.05	95.91
274	DPS 45SD Spray Dried	46.34	95.20	3.17	3.05	96.20
408	DPS 50RD Roller Dried	50.10	93.50	3.23	3.15	97.52
409	DPS 50RD Roller Dried	49.85	95.30	2.97	2.89	97.30

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