

**TABLE 6**  
**Amino acid composition of dried distillers grain with solubles (% of CP) derived from different cereal grains**

	TMP	Maize DDGS	Sorghum DDGS	Wheat DDGS	Barley DDGS	Triticale DDGS
Arginine	3.6	4.1	3.6	3.7	5.2	4.3
Histidine	2.7	2.6	2.3	1.9	0.9	2.6
Isoleucine	5.9	3.4	4.4	2.4	2.4	3.5
Leucine	9.7	8.6	13.6	5.9	6.0	8.8
Lysine	8.1	1.9	2.2	2.0	1.1	2.1
Methionine	2.6	1.7	1.7	1.8	0.8	1.8
Phenylalanine	4.9	4.6	5.5	4.3	3.3	4.6
Threonine	4.6	3.6	3.5	2.7	2.8	3.5
Valine	6.6	4.5	5.4	3.2	3.2	4.5
Total EAA	48.7	34.9	42.3	27.9	25.8	35.5
MPS	—	0.23	0.27	0.25	0.14	0.26

*Notes and sources:* (1) TMP = Total milk protein. Adapted from Jacobson, Van Horn and Sniffen, 1970. (2) Maize dried distillers grain with solubles data adapted from Greter *et al.*, 2008. (3) Sorghum dried distillers drains with solubles data adapted from Urriola *et al.*, 2009. (4) Wheat dried distillers grain with solubles data adapted from Boila and Ingalls, 1994. (5) Barley dried distillers grain with solubles data adapted from Weiss *et al.*, 1989, based on a mix 65% barley and 35% maize. (6) Triticale dried distillers grain with solubles data adapted from Greter *et al.*, 2008. (7) Total EAA = Total essential amino acids. (8) MPS = Milk protein score (concentration of first AA in protein supplement / AA concentration in milk protein) from Schingoethe, 1996.