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Wheat distillers grain with solubles, starch < 7 %



| Main analysis | Unit | Avg | SD | Min | Max | Nb |
|----------------------|----------|------|-----|------|------|------|
| Dry matter | % as fed | 90.6 | 1.3 | 88.1 | 94.7 | 182 |
| Crude protein | % DM | 37.3 | 1.7 | 33.5 | 40.5 | 175 |
| Crude fibre | % DM | 7.7 | 1.1 | 6.5 | 11.2 | 131 |
| NDF | % DM | 34.0 | 6.8 | 25.5 | 49.6 | 31 |
| ADF | % DM | 14.5 | 3.6 | 10.1 | 21.4 | 29 |
| Lignin | % DM | 4.6 | 1.5 | 2.7 | 8.0 | 18 |
| Ether extract | % DM | 5.0 | 0.7 | 3.5 | 6.7 | 76 |
| Ash | % DM | 5.9 | 0.8 | 3.6 | 7.3 | 125 |
| Starch (polarimetry) | % DM | 4.2 | 1.2 | 2.1 | 6.4 | 113 |
| Total sugars | % DM | 2.9 | 2.0 | 0.0 | 6.9 | 14 |
| Gross energy | MJ/kg DM | 20.5 | 0.4 | 20.0 | 21.5 | 15 * |

| Minerals | Unit | Avg | SD | Min | Max | Nb |
|------------|----------|------|-----|-----|------|----|
| Calcium | g/kg DM | 2.1 | 1.0 | 1.1 | 4.7 | 32 |
| Phosphorus | g/kg DM | 9.1 | 1.4 | 6.5 | 11.8 | 36 |
| Potassium | g/kg DM | 10.9 | 2.9 | 2.7 | 14.8 | 13 |
| Sodium | g/kg DM | 4.9 | 3.3 | 0.3 | 13.8 | 17 |
| Magnesium | g/kg DM | 3.7 | 1.0 | 2.8 | 4.8 | 4 |
| Manganese | mg/kg DM | 87 | | 73 | 101 | 2 |
| Zinc | mg/kg DM | 130 | | 72 | 187 | 2 |
| Copper | mg/kg DM | 10 | | 10 | 10 | 2 |
| Iron | mg/kg DM | 140 | 67 | 90 | 290 | 10 |

| Scientific names | Unit | Avg | SD | Min | Max | Nb |
|-----------------------------------|-----------|------|-----|------|------|----|
| Plant and animal families | % protein | 3.8 | 0.8 | 3.3 | 7.1 | 18 |
| Plant and animal species | % protein | 4.0 | 0.4 | 2.8 | 4.6 | 18 |
| Tools | | | | | | |
| FAO Ration Tool for dairy cows | % protein | 4.9 | 0.5 | 4.0 | 6.3 | 18 |
| FAO Laboratory Audit Tool | % protein | 1.9 | 0.2 | 1.7 | 2.5 | 17 |
| Resources | | | | | | |
| Broadening horizons | % protein | 25.8 | 3.5 | 13.5 | 29.8 | 18 |
| Literature search | % protein | 4.0 | 0.2 | 3.7 | 4.5 | 18 |
| Image search | % protein | 2.1 | 0.1 | 1.7 | 2.2 | 18 |
| Glossary | % protein | 3.5 | 0.1 | 3.3 | 3.8 | 18 |
| External resources | % protein | 6.6 | 0.2 | 6.2 | 6.9 | 18 |
| Literature databases | % protein | 2.3 | 0.6 | 1.3 | 3.3 | 23 |
| Feeds and plants databases | % protein | 1.5 | 0.2 | 1.4 | 2.0 | 18 |
| Organisations & networks | % protein | 4.5 | 0.1 | 4.3 | 4.8 | 18 |
| Books | % protein | 8.5 | 0.6 | 7.1 | 10.0 | 17 |
| Journals | % protein | 4.4 | 0.3 | 3.8 | 5.0 | 18 |
| Ruminant nutritive values | % | 3.0 | 0.2 | 2.8 | 3.4 | 19 |
| OM digestibility, ruminants | % | 1.0 | 0.2 | 0.7 | 1.4 | 17 |
| Energy digestibility, ruminants | % | 2.9 | 0.2 | 2.4 | 3.1 | 18 |
| DE ruminants | MJ/kg DM | 4.3 | 0.1 | 4.1 | 4.6 | 18 |
| ME ruminants | MJ/kg DM | 78.5 | | | * | |
| Nitrogen digestibility, ruminants | % | 78.5 | | | * | |
| | | 16.1 | | | * | |
| | | 12.5 | | | * | |
| | | 77.1 | | | * | |

| Ruminant nutritive values | Unit | Avg | SD | Min | Max | Nb |
|-----------------------------------|----------|------|----|-----|-----|----|
| OM digestibility, ruminants | % | 78.5 | | | * | |
| Energy digestibility, ruminants | % | 78.5 | | | * | |
| DE ruminants | MJ/kg DM | 16.1 | | | * | |
| ME ruminants | MJ/kg DM | 12.5 | | | * | |
| Nitrogen digestibility, ruminants | % | 77.1 | | | * | |

| Nitrogen degradability (effective, k=6%) | % | 72 | 13 | 55 | 86 | 8 |
|--|----------|------|------|------|------|------|
| Pig nutritive values | Unit | Avg | SD | Min | Max | Nb |
| Energy digestibility, growing pig | % | 67.6 | 6.5 | 56.3 | 77.4 | 11 * |
| DE growing pig | MJ/kg DM | 13.9 | 1.3 | 11.8 | 16.2 | 10 * |
| ME _n growing pig | MJ/kg DM | 12.8 | 1.4 | 10.3 | 14.7 | 8 * |
| NE growing pig | MJ/kg DM | 8.2 | 1.0 | 6.9 | 10.0 | 8 * |
| Nitrogen digestibility, growing pig | % | 71.4 | 12.4 | 51.7 | 87.8 | 10 * |
| Poultry nutritive values | Unit | Avg | SD | Min | Max | Nb |
| AME poultry | MJ/kg DM | 9.9 | 0.7 | 8.7 | 11.1 | 24 |
| AMEn poultry | MJ/kg DM | 9.5 | 0.8 | 8.3 | 10.8 | 20 |

The asterisk * indicates that the average value was obtained by an equation.

References

Abdelqader et al., 2013; AFZ, 2011; Alagón, 2013; Avelar et al., 2010; Azarfar et al., 2013; Cozannet, 2010; Emiola et al., 2009; Franke et al., 2009; Gibb et al., 2008; Holtshausen et al., 2011; Kerckhove et al., 2011; McKeown et al., 2010; Nuez-Ortin et al., 2009; Nyachoti et al., 2005; Penner et al., 2009; Thacker et al., 2007; University of Minnesota, 2007; Vilariño, 2006; Widyaratne et al., 2007; Zhang et al., 2010

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Datasheet

Wheat distillers grain

Table status

Finished

Table order

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