

# SPECTRUM



## SPECIFICATIONS



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ANIMAL NUTRITION

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| Standard Analysis | % DM |
|-------------------|------|
| Moisture          | 9.3  |
| Dry Matter        | 90.7 |
| Nitrogen          | 7.0  |
| Crude Protein     | 43.7 |
| Soluble Protein   | 16.7 |
| Ammonia           | 0.0  |
| NDIP              | 6.1  |
| ADIP              | 6.1  |
| Crude Fiber       | 5.0  |
| ADF               | 8.4  |
| NDF               | 21.6 |
| Lignin            | 1.4  |
| Total VFA         | 0.0  |
| Lactic            | 0.0  |
| Acetic            | 0.0  |
| Sugar             | 3.0  |
| Starch            | 0.9  |
| Soluble Fiber     | 6.8  |
| NFC               | 10.8 |

| Protein Bio-Availability | % DM |
|--------------------------|------|
| RUP % CP                 | 74.8 |
| RUPd % RUP               | 81.4 |
| dRUP % DM                | 26.6 |
| dRUP-Lys % DM            | 1.7  |
| dRUP-Met % DM            | 0.4  |
| dRUP-EAA % DM            | 12.9 |

| Macro Mineral | % DM |
|---------------|------|
| Ash           | 7.2  |
| Calcium       | 1.3  |
| Phosphorus    | 0.9  |
| Magnesium     | 0.2  |
| Potassium     | 0.9  |
| Sulfur        | 0.7  |
| Sodium        | 0.3  |
| Chloride      | 0.3  |

| Trace Mineral | ppm   |
|---------------|-------|
| Iron          | 564.9 |
| Manganese     | 12.8  |
| Zinc          | 50.6  |
| Copper        | 5.5   |

| Fatty Acids    | % DM  |
|----------------|-------|
| Fat            | 16.7  |
| TFA            | 16.7  |
| Glycerol       | 0.0   |
| Pigment        | 0.0   |
| C12:0          | 0.0   |
| C14:0          | 0.1   |
| C16:0          | 8.2   |
| C16:1          | 0.0   |
| C18:0          | 0.8   |
| C18:1T         | 0.0   |
| C18:1C         | 4.0   |
| C18:2          | 3.2   |
| C18:3          | 0.1   |
| Other          | 0.2   |
| Fat Type       | 1.9   |
| Lipolysis Rate | 323.3 |

| Pool   | % DM  | Rate  | Int dig |
|--------|-------|-------|---------|
| CHO A1 | -     | -     | -       |
| CHO A4 | 3.02  | 40.00 | 100.00  |
| CHO B1 | 0.95  | 17.00 | 75.00   |
| CHO B2 | -     | -     | -       |
| CHO B3 | 18.28 | 7.00  | 20.00   |
| CHO C  | 3.36  | -     | -       |
| PRO A1 | -     | -     | -       |
| PRO A2 | 16.73 | 7.50  | 100.00  |
| PRO B1 | 20.91 | 2.09  | 100.00  |
| PRO B2 | -     | -     | -       |
| PRO C  | 6.10  | -     | -       |

| Amino Acids   | Product |         | Model |         |
|---------------|---------|---------|-------|---------|
|               | % DM    | % of CP | % DM  | % of CP |
| Arginine      | 2.0     | 4.6     | 1.9   | 4.3     |
| Histidine     | 1.5     | 3.5     | 1.8   | 4.1     |
| Isoleucine    | 1.1     | 2.5     | 0.9   | 2.0     |
| Leucine       | 5.0     | 11.5    | 5.3   | 12.1    |
| Lysine        | 2.3     | 5.3     | 2.7   | 6.2     |
| Methionine    | 0.7     | 1.5     | 0.6   | 1.4     |
| Phenylalanine | 2.5     | 5.7     | 2.7   | 6.2     |
| Threonine     | 1.7     | 3.9     | 1.8   | 4.0     |
| Tryptophan    | 0.4     | 1.0     | 0.5   | 1.1     |
| Valine        | 2.8     | 6.5     | 3.1   | 7.1     |
| EAA           | 20.1    | 46.0    | 21.2  | 48.5    |

<sup>1</sup>When a feed component of a dairy ration consists of a blend of feed ingredients differing in rumen undegradable protein and/or post-ruminal protein digestibility, the amino acids of the resulting mixture differ in their ruminal degradability and post ruminal digestibility. Most ration formulation software allow only a single, common set of parameters to characterize ruminal degradability and post ruminal digestibility of all essential amino acids; one cannot enter parameters specific to each amino acid. Therefore, entering the amino acid profile of the whole protein of a feed mixture results in erroneous values of its metabolizable amino acid content. To circumvent this problem, users should use the 'model specifications' amino acid values in software such as CNCPS/NRC so that the correct supply of each metabolizable amino acid is calculated correctly.