

Nutrition Analysis

March 06, 2019

Empyreal® 75 is manufactured with a clear purpose in mind. This plant-based, sustainable protein concentrate is specifically designed to benefit everyone in the value chain — from the feed mill, to producers, to the animals themselves. Because of this deliberate design, Empyreal 75 provides nutritional and functional consistency in every shipment. Most importantly, this product is created to promote fast, safe and efficient growth in animals, which results in higher profits. That means both animals and businesses gain more.

| TYPICAL ANALYSIS (AS-IS BASIS) | | | |
|--------------------------------|-------|--------------------------------|-------|
| Protein | 76.2% | Ash | 1.3% |
| Fat, Acid Hydrolysis | 4.5% | Carbohydrates | 5.3% |
| Crude Fiber | 1.0% | Density, lb/cu ft | 36–39 |
| TDF | 5.0% | Omega-6 (Linoleic Acid) | 2.55% |
| Moisture | 8.5% | | |

NUTRITIONAL INFORMATION

| Amino Acid Content | As-Is | % Protein | Vitamins (mg/kg) | As-Is | Minerals | As-Is |
|-------------------------|-------|-----------|------------------------------------|--------|-----------------|-------|
| Alanine | 6.17 | 8.16 | Vitamin A (Retinol) | 13.4 | Calcium | 0.05% |
| Arginine | 2.28 | 3.02 | Choline | 190 | Potassium | 0.15% |
| Aspartic Acid | 4.24 | 5.62 | Niacin | 46.9 | Phosphorus | 0.24% |
| Cystine | 1.15 | 1.52 | Pantothenic Acid | 1.88 | Magnesium | 0.05% |
| Glutamine/Glutamic Acid | 15.29 | 20.26 | Pyroxidine (B6) | 5.45 | Chloride | 0.29% |
| Glycine | 1.79 | 2.37 | Riboflavin (B2) | 2.73 | Sulfur | 0.95% |
| Histidine | 1.55 | 2.06 | Thiamine (B1) | 0.41 | Sodium | 0.25% |
| Isoleucine | 3.06 | 4.06 | Biotin | 0.18 | Iron, ppm | 73.6 |
| Leucine | 12.63 | 16.73 | Inositol | 1,604 | Zinc, ppm | 47.9 |
| Lysine | 1.08 | 1.43 | Carotenoids/ Antioxidants (ppm) | As-Is | Manganese, ppm | 4.3 |
| Methionine | 1.70 | 2.29 | cis-Lutein | 35–55 | Copper, ppm | 11.1 |
| Phenylalanine | 4.65 | 6.16 | trans-Lutein | 90–150 | Chromium, ppm | 0.00 |
| Proline | 6.68 | 8.84 | cis-Zeaxanthin | 20–35 | Molybdenum, ppm | 0.74 |
| Serine | 3.47 | 4.60 | trans-Zeaxanthin | 90–120 | Selenium, ppm | 1.97 |
| Threonine | 2.25 | 2.98 | alpha-Cryptoxanthin | 20–28 | Iodine | < 5.0 |
| Tryptophan | 0.32 | 0.42 | beta-Cryptoxanthin | 10–16 | | |
| Tyrosine | 3.95 | 5.24 | alpha-Carotene | 2–4 | | |
| Valine | 3.36 | 4.45 | beta-Carotene | 15–25 | | |

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Cargill Branded Feed creates proprietary feed ingredients to improve digestive health and performance for production animals in the beef, dairy, aquaculture and pet food markets. Branded Feed is a segment of Cargill Starches, Sweeteners & Texturizers (CSST).

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