

Nutritional Analysis Results

Formula: Roasted Peanut Butter & Sweet Potato Flavor for adult dogs of all breeds

Manufacturing Date: 12/02/2021

Report Date: 12/20/2021

Laboratory: Midwest Laboratories

| | <u>Measure</u> | <u>As measured</u> | <u>Dry weight</u> | AAFCO nutrient profile for adult dog maintenance* | |
|--|----------------|--------------------|-------------------|--|--------------------|
| | | | | <u>min (% dry)</u> | <u>max (% dry)</u> |
| Macronutrients & Energy | | | | | |
| Moisture | % | 6.60 | n/a | - | - |
| Protein (crude) | % | 29.20 | 31.26 | 18.00 | - |
| Fat (crude) | % | 17.00 | 18.20 | 5.50 | - |
| Fiber (crude) | % | 4.66 | 4.99 | - | - |
| Ash | % | 5.92 | 6.34 | - | - |
| Carbohydrates (<i>calculated</i>) | % | 36.62 | 39.21 | - | - |
| Calorie Content (ME) (<i>calculated</i>) | kcal/kg | 3,749 | 4,014 | - | - |
| Minerals | | | | | |
| Sulfur | % | 0.53 | 0.55 | - | - |
| Calcium | % | 0.96 | 1.03 | 0.50 | 2.50 |
| Phosphorus | % | 0.49 | 0.52 | 0.40 | 1.60 |
| Calcium:Phosphorus | ratio | 1.96 | 1.96 | 1.00 | 2.00 |
| Sodium | % | 0.44 | 0.47 | 0.08 | - |
| Potassium | % | 0.88 | 0.94 | 0.62 | - |
| Chloride | % | 0.21 | 0.22 | 0.12 | - |
| Magnesium | % | 0.18 | 0.19 | 0.06 | - |
| Copper | ppm | 15.7 | 16.8 | 7.30 | - |
| Iodine | ppm | 4.9 | 5.3 | 1.00 | 11.0 |
| Iron | ppm | 179.0 | 191.6 | 40.0 | - |
| Manganese | ppm | 46.0 | 49.3 | 5.00 | - |
| Selenium | ppm | 0.67 | 0.72 | 0.35 | 2.00 |
| Zinc | ppm | 113.0 | 121.0 | 82.0 | - |
| Vitamins | | | | | |
| Vitamin A (retinol + beta-carotene) | IU/kg | 16,700 | 17,880 | 5,000 | 250,000 |
| Vitamin D2 (ergocalciferol) | IU/kg | 1,540 | 1,649 | 500 | 3,000 |
| Vitamin E (total) | IU/kg | 281 | 301 | 50 | - |
| Thiamine | mg/kg | 9.6 | 10.2 | 2.3 | - |
| Riboflavin (vitamin B2) | mg/kg | 8.0 | 8.5 | 5.2 | - |
| Niacin (vitamin B3) | mg/kg | 25.1 | 26.9 | 13.6 | - |
| Choline chloride | mg/kg | 1,370 | 1,467 | 1,360 | - |
| Pantothenic acid | mg/kg | 73.7 | 78.9 | 12.0 | - |
| Pyridoxine (vitamin B6) | mg/kg | 2.31 | 2.47 | 1.50 | - |
| Folic acid | mg/kg | 8.80 | 9.42 | 0.22 | - |
| Cobalamin (vitamin B12) | mg/kg | 0.15 | 0.16 | 0.03 | - |



| | Measure | As measured | Dry weight | AAFCO nutrient profile for adult dog maintenance* | |
|--------------------------|---------|-------------|------------|---|-------------|
| | | | | min (% dry) | max (% dry) |
| Amino Acids | | | | | |
| Arginine | % | 1.89 | 2.02 | 0.51 | - |
| Cystine | % | 0.43 | 0.46 | - | - |
| Histidine | % | 0.64 | 0.69 | 0.19 | - |
| Isoleucine | % | 1.38 | 1.48 | 0.38 | - |
| Leucine | % | 2.47 | 2.64 | 0.68 | - |
| Lysine | % | 1.73 | 1.85 | 0.63 | - |
| Methionine | % | 0.68 | 0.73 | 0.33 | - |
| Methionine + Cystine | % | 1.11 | 1.19 | 0.65 | - |
| Phenylalanine | % | 1.73 | 1.85 | 0.45 | - |
| Phenylalanine + Tyrosine | % | 2.92 | 3.13 | 0.74 | - |
| Threonine | % | 1.28 | 1.37 | 0.48 | - |
| Tryptophane | % | 0.30 | 0.32 | 0.16 | - |
| Tyrosine | % | 1.19 | 1.27 | - | - |
| Valine | % | 1.59 | 1.70 | 0.49 | - |
| Taurine | % | 0.15 | 0.16 | - | - |
| L-carnitine | mg/kg | 139 | 149 | - | - |
| Fatty Acids | | | | | |
| <u>Omega 3 (total)</u> | % | 1.30 | 1.39 | - | - |
| alpha-Linolenic (ALA) | % | 1.14 | 1.22 | - | - |
| Docosahexaenoic (DHA) | % | 0.16 | 0.17 | - | - |
| Eicosapentaenoic (EPA) | % | 0.00 | 0.00 | - | - |
| <u>Omega-6 (total)</u> | % | 2.53 | 2.71 | - | - |
| Linoleic | % | 2.52 | 2.70 | 1.10 | - |
| Arachidonic | % | 0.00 | 0.00 | - | - |
| omega-6:omega-3 | ratio | 1.95 | 1.95 | - | 30 |
| <u>Omega-9</u> | % | 10.60 | 11.35 | - | - |
| Oleic | % | 10.60 | 11.35 | - | - |
| Saturated fat | % | 2.30 | 2.46 | - | - |
| Trans fat | % | 0.00 | 0.00 | - | - |

*AAFCO only provides guidelines for essential nutrients – i.e. nutrients that adult dogs must get through their diet and cannot biosynthesize themselves. We have included some nutrients that are not considered essential by AAFCO (and thus do not have an AAFCO minimum) for additional transparency. AAFCO only defines maximum inclusion rates for some nutrients where the safe upper limit (SUL) has been established. AAFCO nutrient profile guidelines are calculated assuming a 4,000 kcal/kg caloric density. This diet is ~3,670 kcal/kg, which means that the AAFCO guideline amounts are ~9% higher than required on an ‘as fed’ basis.

Note: Results reflect the analysis of a random sample of the formula manufactured on 12/02/2021. Nutritional composition may vary within and between manufacturing runs. This document does not reflect a guaranteed nutritional profile for food purchased from Petaluma and is provided for informational purposes.

