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|  **Dietary Composition** |
|  | **Regular Diet** | **High Fat Diet** |
| **Manufacturer** | **PicoLab** | **Envigo** |
| **Catalog #** | **5LOD** | **TD.06415** |
| **Macronutrients** |
|  | **Units** |  |  |
| **Protein** | % | 24.6 | 21.7 |
| **Carbohydrates** | % | 57.2 | 41.4 |
| **Fat** | % | 11.4 | 22.7 |
| **Fiber** | % | 5.3 | 5.8 |
| **Energy density** | Kcal/g | 4.09 | 4.6 |
| **Calories from:** |
| **Protein** | % | 29.33 | 19.0 |
| **Fat** | % | 13.39 | 44.8 |
| **Carbohydrates** | % | 57.27 | 36.2 |
|  |  |  |  |
| **Amino Acids:** |
| **Lysine** | g/kg | 14.6 | 17.2 |
| **Methionine** | g/kg | 6.0 | 5.6 |
| **Cystine** | g/kg | 3.8 | 4.1 |
| **Arginine** | g/kg | 15.5 | 8.1 |
| **Phenylalanine** | g/kg | 11.0 | 10.8 |
| **Tyrosine** | g/kg | 7.6 | 11.3 |
| **Histidine** | g/kg | 6.1 | 6.1 |
| **Isoleucine** | g/kg | 10.5 | 12.3 |
| **Leucine** | g/kg | 18.8 | 19.6 |
| **Threonine** | g/kg | 9.6 | 9.3 |
| **Tryptophan** | g/kg | 2.8 | 2.5 |
| **Valine** | g/kg | 11.5 | 14.7 |
| **Glutamic Acid** | g/kg | 46.4 | 44.6 |
| **Alanine** | g/kg | 14.3 | 6.4 |
| **Glycine** | g/kg | 12.6 | 3.9 |
| **Proline** | g/kg | 14.6 | 22.1 |
| **Serine** | g/kg | 11.6 | 12.3 |
| **Vitamins:** |
| **Vitamin A** | IU/g | 18 | 7.6 |
| **Vitamin D** | IU/g | 4.6 | 1.9 |
| **Vitamin E** | IU/kg | 42 | 143 |
| **Vitamin K** | mg/kg | 1.3 | 1.4 |
| **Biotin** | mg/kg | 0.30 | 0.38 |
| **Choline** | mg/kg | 2250 | 1377 |
| **Folic Acid** | mg/kg | 7.1 | 3.8 |
| **Niacin** | mg/kg | 130 | 57 |
|  **Dietary Composition (continued)** |
| **Vitamins (continued):** |
|  | **Units** | **Regular Diet** | **High Fat Diet** |
| **Pantothenate** | mg/kg | 24 | 27.8 |
| **Riboflavin** | mg/kg | 8 | 11.4 |
| **Thiamin** | mg/kg | 16 | 9.2 |
| **Vitamin B6** | mg/kg | 6.1 | 10.9 |
| **Vitamin B12** | mg/kg | 0.05 | 0.05 |
| **Vitamin C** | mg/kg | 0.0 | 0.0 |
| **Minerals:** |
| **Calcium**  | g/kg | 9.5 | 7.2 |
| **Phosphorus** | g/kg | 6.9 | 4.4 |
| **Potassium** | g/kg | 12.1 | 4.4 |
| **Sodium** | g/kg | 3.9 | 1.3 |
| **Chlorine** | g/kg | 6.4 | 1.9 |
| **Magnesium** | g/kg | 2.1 | 0.637 |
| **Copper** | mg/kg | 13 | 7.6 |
| **Iron** | mg/kg | 240 | 45.6 |
| **Zinc** | mg/kg | 75 | 51.1 |
| **Manganese** | mg/kg | 71 | 12.9 |
| **Iodine** | mg/kg | 0.99 | 0.26 |
| **Selenium** | mg/kg | 0.41 | 0.18 |
| **Chromium** | mg/kg | 0.01 | 1.23 |
| **Fat Sources:** |
| **Lard** | % by weight | Not reported | 19.5 |
| **Soybean oil** | % by weight | Not reported | 3 |
| **Saturated Fat** | g/kg | 14.5 | 76.7 |
| **Monounsaturated Fat** | g/kg | 16 | 86.9 |
| **Polyunsaturated Fat** | g/kg | Not reported | 55.4 |
| **Fatty Acids:** |
| **14:0 Myristic** | g/kg | Not reported | 2.0 |
| **16:0 Palmitic** | g/kg | Not reported | 48.2 |
| **Arachidonic Acid** | g/kg | 0.2 | Not reported |
| **16:1 Palmitoleic** | g/kg | Not reported | 3.9 |
| **18:0 Stearic** | g/kg | Not reported | 26.6 |
| **18:1 Oleic** | g/kg | Not reported | 83 |
| **18:2 Linoleic** | g/kg | 10.6 | 51 |
| **Omega-3 Fatty Acids** | g/kg | 3.1 | 4.4 |
| **Other** |
| **Cholesterol** | mg/kg | 206 | 234.3 |
| **Sucrose** | g/kg | 31.8 | 220 |
| **Starch** | g/kg | 21.9 | 0 |

**Table S1.** Diets composition provided by the manufacturers.