**Supplementary Table 1:**

**List of diet compositions:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chow diet** | | | **High Fat Diet diet(12109C)**  **(40% fat)** | |
| **S.No.** | **Name** | **g** | **Name** | **g** |
| 1 | Choline chloride | 1 | Protein | 22.5 |
| 2 | PABA | 0.10 | Carbohydrate | 45 |
| 3 | Alpha tocopherol | 0.12 | Fat | 20 |
| 4 | Inositol | 0.10 | Cholesterol | 11.25 |
| 5 | Pantothenic acid | 0.12 | Cholic acid | 2 |
| 6 | Thiamine | 0.012 | Casein | 200 |
| 7 | Niacin | 0.01 | L cystein | 3 |
| 8 | Riboflavin | 0.005 | Corn starch | 212 |
| 9 | Pyridoxine | 0.006 | Maltodextrin | 71 |
| 10 | Folic acid | 0.001 | Sucrose | 113 |
| 11 | Biotin | 0.0004 | Cellulose | 50 |
| 12 | Vitamin K | 0.0015 | Soybean oil | 25 |
| 13 | Vitamin D | 0.0021 | Lard | 0 |
| 14 | Cynocobalamin | 0.00005 | Mineral mix | 10 |
| 15 | Dicalcium phosphate | 12.50 | Dicalcium phosphate | 13 |
| 16 | Calcium carbonate | 5.50 | Calcium carbonate | 5.5 |
| 17 | Sodium chloride | 3.00 | Potassium citrate | 16.5 |
| 18 | Magnesium sulfate | 2.292 | Choline bilateral | 2 |
| 19 | Ferrous sulfate | 0.164 | Red Dye, FD&C #40 | 0.05 |
| 20 | Potassium iodide | 10.00 | Blue Dye, FD&C #1 | 0.05 |
| 21 | Zinc sulfate | 21.92 | - | - |
| 22 | Copper sulfate | 21.92 | - | - |
| 23 | Cobalt chloride | 0.12 | - | - |
| 24 | Starch | 3.63 | - | - |
| 25 | Wheat | 225.00 | - | - |
| 26 | Roaster Bengal gram dal | 600.00 | - | - |
| 27 | Skim milk powder | 50.00 | - | - |
| 28 | Casein | 40.00 | - | - |
| 29 | Vegetable oil | 40.00 | - | - |
| Total energy 4.30 Kcal/g. | | | Total energy 4.5 Kcal/g | |