**S1 Table. Composition of chemicals required for the preparation of 100 mL of the artificial diet.** All catalog numbers are for Sigma-Aldrich (St. Louis, MO) unless otherwise noted.

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| **Component** | **Catalog number** | **Amount** |
| **Amino acids** |
| L-Alanine | A5006 | 4 mg |
| ß-Alanine | 146064 | 4 mg |
| L-Arginine · HCl | A5006 | 12 mg |
| L-Asparagine · H2O | A8381 | 26 mg |
| L-Aspartic acid | A9256 | 8 mg |
| L-a-amino-n-butyric acid | D0506 | 2 mg |
| ?-Amino-n-butyric acid | D8131 | 3 mg |
| DL-Carnithine · HCl | C9500 | 3 mg |
| L-Citrulline | C7629 | 3 mg |
| L-Cysteine · HCl | C1276 | 4 mg |
| L-Cystine | C7602 | 3 mg |
| L-Glutamic acid | G1251 | 4 mg |
| L-Glutamine | G3126 | 12 mg |
| L-Glycine | 410225 | 3 mg |
| L-Histidine · HCl · H2O | H8125 | 12 mg |
| L-Homoserine | H6515 | 3 mg |
| L-Hydroxyproline | H54409 | 3 mg |
| L-Isoleucine | I2752 | 12 mg |
| L-Leucine | L8000 | 8 mg |
| L-Lysine · HCl | L5626 | 8 mg |
| L-Methionine | 64319 | 12 mg |
| L-Ornithine · HCl | O2375 | 8 mg |
| L-Phenylalanine | 8 mg |  |
| L-Proline | 81709 | 7 mg |
| L-Serine | 84959 | 3 mg |
| L-Threonine | T8625 | 7 mg |
| L-Tryptophane | T0254 | 4 mg |
| L-Tyrosine | T3754 | 8 mg |
| L-Valine | V0500 | 8 mg |
| **Vitamins** |
| Nicotinamide | 72340 | 0.5 mg |
| (+)-Pantothenic acid, Ca salt | C8731 | 0.3 mg |
| Aneurine · HCl | T4625 | 0.1 mg |
| Riboflavin | R7649 | 0.05 mg |
| Pyridoxine · HCl | P9755 | 0.3 mg |
| Folic acid | F7876 | 0.005 mg |
| D-Biotin | B4501 | 0.005 mg |
| Cyanocobalamin | C3607 | 0.003 mg |
| para-Aminobenzoic acid | A9878 | 0.1 mg |
| meso-Inositol | I5125 | 3 mg |
| Choline chloride | 26980 | 3 mg |
| L-Ascorbic acid | A5960 | 50 mg |
| **Mineral salts** |
| K2HPO4 | 1551128 | 11.4 mg |
| MgSO4 | M7506 | 4 mg |
| CaCl2 · 2H2O | C5080 | 2 mg |
| CoCl2 · 6H2O | C8661 | 0.05 mg |
| CuCl2 · 2H2O | 307483 | 0.08 mg |
| FeCl3 · 6H2O | 236489 | 0.6 mg |
| MnCl2 · 4H2O | M5005 | 0.2 mg |
| ZnCl2 | 229997 | 0.4 mg |
| **Other components** |
| Cholesterol | C8767 | 10 mg |
| Casein, Na salt | C8654 | 2000 mg |
| D-Glucose | G7021 | 1000 mg |
| Wheat germ powder | W0125 | 2000 mg |