

## Ham's F-10 Medium Ingredient Formula

| Ingredient(mg/L) / Cat. No.                  | PM151110 | PM151110A | PM151111 | PM151111A | PM151112 | PM151113 | PM151114 |
|----------------------------------------------|----------|-----------|----------|-----------|----------|----------|----------|
| <b>Inorganic Salt</b>                        |          |           |          |           |          |          |          |
| CaCl <sub>2</sub> (Anhydrous)                | 33.3     | 33.3      | 33.3     | 33.3      | 33.3     | 33.3     | 33.3     |
| CuSO <sub>4</sub> •5H <sub>2</sub> O         | 0.0025   | 0.0025    | 0.0025   | 0.0025    | 0.0025   | 0.0025   | 0.0025   |
| FeSO <sub>4</sub> •7H <sub>2</sub> O         | 0.834    | 0.834     | 0.834    | 0.834     | 0.834    | 0.834    | 0.834    |
| MgSO <sub>4</sub> (Anhydrous)                | 74.64    | 74.64     | 74.64    | 74.64     | 74.64    | 74.64    | 74.64    |
| KCl                                          | 285      | 285       | 285      | 285       | 285      | 285      | 285      |
| KH <sub>2</sub> PO <sub>4</sub>              | 83       | 83        | 83       | 83        | 83       | 83       | 83       |
| NaHCO <sub>3</sub>                           | 1200     | 1200      | 1200     | 1200      | 1200     | 1200     | 1200     |
| NaCl                                         | 7400     | 7400      | 6900     | 6900      | 7400     | 7400     | 7400     |
| Na <sub>2</sub> HPO <sub>4</sub> (Anhydrous) | 153.7    | 153.7     | 153.7    | 153.7     | 153.7    | 153.7    | 153.7    |
| ZnSO <sub>4</sub> •7H <sub>2</sub> O         | 0.0288   | 0.0288    | 0.0288   | 0.0288    | 0.0288   | 0.0288   | 0.0288   |
| <b>Amino Acid</b>                            |          |           |          |           |          |          |          |
| L-Alanyl-L-Glutamine                         | –        | –         | –        | –         | –        | 217      | –        |
| Glycine                                      | 7.5      | 7.5       | 7.5      | 7.5       | 7.5      | 7.5      | 7.5      |
| L-Alanine                                    | 9        | 9         | 9        | 9         | 9        | 9        | 9        |
| L-Arginine Hydrochloride                     | 211      | 211       | 211      | 211       | 211      | 211      | 211      |
| L-Asparagine Monohydrate                     | 15.01    | 15.01     | 15.01    | 15.01     | 15.01    | 15.01    | 15.01    |
| L-Aspartic Acid                              | 13.3     | 13.3      | 13.3     | 13.3      | 13.3     | 13.3     | 13.3     |
| L-Cysteine Hydrochloride Monohydrate         | 35.12    | 35.12     | 35.12    | 35.12     | 35.12    | 35.12    | 35.12    |
| L-Glutamic Acid                              | 14.7     | 14.7      | 14.7     | 14.7      | 14.7     | 14.7     | 14.7     |
| L-Glutamine                                  | 146      | 146       | 146      | 146       | –        | –        | 146      |
| L-Histidine Hydrochloride Monohydrate        | 21       | 21        | 21       | 21        | 21       | 21       | 21       |
| L-Isoleucine                                 | 2.6      | 2.6       | 2.6      | 2.6       | 2.6      | 2.6      | 2.6      |
| L-Leucine                                    | 13.1     | 13.1      | 13.1     | 13.1      | 13.1     | 13.1     | 13.1     |
| L-Lysine Hydrochloride                       | 29.3     | 29.3      | 29.3     | 29.3      | 29.3     | 29.3     | 29.3     |
| L-Methionine                                 | 4.48     | 4.48      | 4.48     | 4.48      | 4.48     | 4.48     | 4.48     |
| L-Phenylalanine                              | 4.96     | 4.96      | 4.96     | 4.96      | 4.96     | 4.96     | 4.96     |
| L-Proline                                    | 11.5     | 11.5      | 11.5     | 11.5      | 11.5     | 11.5     | 11.5     |
| L-Serine                                     | 10.5     | 10.5      | 10.5     | 10.5      | 10.5     | 10.5     | 10.5     |
| L-Threonine                                  | 3.57     | 3.57      | 3.57     | 3.57      | 3.57     | 3.57     | 3.57     |
| L-Tryptophan                                 | 0.6      | 0.6       | 0.6      | 0.6       | 0.6      | 0.6      | 0.6      |
| L-Tyrosine Disodium Salt Dihydrate           | 2.61     | 2.61      | 2.61     | 2.61      | 2.61     | 2.61     | 2.61     |
| L-Valine                                     | 3.5      | 3.5       | 3.5      | 3.5       | 3.5      | 3.5      | 3.5      |
| <b>Vitamin</b>                               |          |           |          |           |          |          |          |
| Biotin                                       | 0.024    | 0.024     | 0.024    | 0.024     | 0.2      | 0.2      | 0.2      |
| Choline Chloride                             | 0.698    | 0.698     | 0.698    | 0.698     | 5        | 5        | 5        |
| D-Calcium Pantothenate                       | 0.715    | 0.715     | 0.715    | 0.715     | 0.2      | 0.2      | 0.2      |
| Folic Acid                                   | 1.32     | 1.32      | 1.32     | 1.32      | 10       | 10       | 10       |
| Niacinamide                                  | 0.615    | 0.615     | 0.615    | 0.615     | 0.5      | 0.5      | 0.5      |
| Pyridoxine Hydrochloride                     | 0.206    | 0.206     | 0.206    | 0.206     | 0.5      | 0.5      | 0.5      |
| Riboflavin                                   | 0.376    | 0.376     | 0.376    | 0.376     | 0.2      | 0.2      | 0.2      |
| Thiamine Hydrochlorid                        | 1        | 1         | 1        | 1         | 0.2      | 0.2      | 0.2      |
| Vitamin B12                                  | 1.36     | 1.36      | 1.36     | 1.36      | 2        | 2        | 2        |
| Meso-inositol                                | 0.541    | 0.541     | 0.541    | 0.541     | 36       | 36       | 36       |
| <b>Others</b>                                |          |           |          |           |          |          |          |
| D-Glucose                                    | 1100     | 1100      | 1100     | 1100      | 1100     | 1100     | 1100     |
| Thymidine                                    | 0.73     | 0.73      | 0.73     | 0.73      | 0.73     | 0.73     | 0.73     |
| Hypoxanthine Sodium                          | 4.7      | 4.7       | 4.7      | 4.7       | 4.7      | 4.7      | 4.7      |
| Lipoic Acid                                  | 0.21     | 0.21      | 0.21     | 0.21      | 0.21     | 0.21     | 0.21     |
| Sodium Pyruvate                              | 110      | 110       | 110      | 110       | 110      | 110      | 110      |
| HEPES                                        | –        | –         | 5958     | 5958      | –        | –        | –        |
| Phenol Red                                   | 1.2      | 1.2       | 1.2      | 1.2       | 1.2      | 1.2      | –        |
| Penicillin G Sodium Salt                     | –        | 100kU     | –        | 100kU     | –        | –        | –        |
| Streptomycin Sulfate                         | –        | 100       | –        | 100       | –        | –        | –        |