

**DMEM (Glucose Free) Medium Ingredient Formula\_Table 1**

| Ingredient(mg/L) / Cat.No.                           | PM150270 | PM150271 | PM150272 | PM150273 | PM150274 | PM150275 | PM150276 | PM150277 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Inorganic Salt</b>                                |          |          |          |          |          |          |          |          |
| CaCl <sub>2</sub> (Anhydrous)                        | 200      | 200      | 200      | 200      | 200      | 200      | 200      | 200      |
| Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      |
| MgSO <sub>4</sub> (Anhydrous)                        | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    |
| KCl  | 400      | 400      | 400      | 400      | 400      | 400      | 400      | 400      |
| NaHCO <sub>3</sub>                                   | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     |
| NaCl   | 6400     | 6400     | 6400     | 6400     | 4750     | 4750     | 4750     | 4750     |
| NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O   | 125      | 125      | 125      | 125      | 125      | 125      | 125      | 125      |
| <b>Amino Acid</b>                                    |          |          |          |          |          |          |          |          |
| L-Alanyl-L-Glutamine                                 | -        | -        | -        | -        | -        | -        | -        | -        |
| Glycine  | 30       | 30       | 30       | 30       | 30       | 30       | 30       | 30       |
| L-Arginine Hydrochloride                             | 84       | 84       | 84       | 84       | 84       | 84       | 84       | 84       |
| L-Cystine 2HCl                                       | 63       | 63       | 63       | 63       | 63       | 63       | 63       | 63       |
| L-Glutamine  | 584      | 584      | -        | -        | 584      | 584      | -        | -        |
| L-Histidine Hydrochloride-H <sub>2</sub> O           | 42       | 42       | 42       | 42       | 42       | 42       | 42       | 42       |
| L-Isoleucine   | 105      | 105      | 105      | 105      | 105      | 105      | 105      | 105      |
| L-Leucine  | 105      | 105      | 105      | 105      | 105      | 105      | 105      | 105      |
| L-Lysine Hydrochloride                               | 146      | 146      | 146      | 146      | 146      | 146      | 146      | 146      |
| L-Methionine   | 30       | 30       | 30       | 30       | 30       | 30       | 30       | 30       |
| L-Phenylalanine                                      | 66       | 66       | 66       | 66       | 66       | 66       | 66       | 66       |
| L-Serine   | 42       | 42       | 42       | 42       | 42       | 42       | 42       | 42       |
| L-Threonine  | 95       | 95       | 95       | 95       | 95       | 95       | 95       | 95       |
| L-Tryptophan   | 16       | 16       | 16       | 16       | 16       | 16       | 16       | 16       |
| L-Tyrosine Disodium Salt Dihydrate                   | 104      | 104      | 104      | 104      | 104      | 104      | 104      | 104      |
| L-Valine   | 94       | 94       | 94       | 94       | 94       | 94       | 94       | 94       |
| <b>Vitamin</b>                                       |          |          |          |          |          |          |          |          |
| Choline Chloride                                     | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| D-Calcium Pantothenate                               | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Folic Acid   | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Niacinamide  | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Pyridoxine Hydrochloride                             | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Riboflavin   | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      |
| Thiamine Hydrochlorid                                | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Meso-inositol  | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      |
| <b>Others</b>  |          |          |          |          |          |          |          |          |
| D-Glucose  | -        | -        | -        | -        | -        | -        | -        | -        |
| Sodium Pyruvate                                      | 110      | -        | 110      | -        | 110      | -        | 110      | -        |
| HEPES  | -        | -        | -        | -        | 5958     | 5958     | 5958     | 5958     |
| Phenol Red   | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15       |

**DMEM (Glucose Free) Medium Ingredient Formula\_Table 2**

| Ingredient(mg/L) / Cat.No.                           | PM150278 | PM150279 | PM150280 | PM150269 | PM150281 | PM150282 | PM150283 | PM150284 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Inorganic Salt</b>                                |          |          |          |          |          |          |          |          |
| CaCl <sub>2</sub> (Anhydrous)                        | 200      | 200      | 200      | 200      | 200      | 200      | 200      | 200      |
| Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      |
| MgSO <sub>4</sub> (Anhydrous)                        | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    |
| KCl  | 400      | 400      | 400      | 400      | 400      | 400      | 400      | 400      |
| NaHCO <sub>3</sub>                                   | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     |
| NaCl   | 6400     | 6400     | 6400     | 6400     | 4750     | 4750     | 4750     | 4750     |
| NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O   | 125      | 125      | 125      | 125      | 125      | 125      | 125      | 125      |
| <b>Amino Acid</b>                                    |          |          |          |          |          |          |          |          |
| L-Alanyl-L-Glutamine                                 | -        | -        | -        | -        | -        | -        | -        | -        |
| Glycine  | 30       | 30       | 30       | 30       | 30       | 30       | 30       | 30       |
| L-Arginine Hydrochloride                             | 84       | 84       | 84       | 84       | 84       | 84       | 84       | 84       |
| L-Cystine 2HCl                                       | 63       | 63       | 63       | 63       | 63       | 63       | 63       | 63       |
| L-Glutamine  | 584      | -        | 584      | -        | 584      | -        | 584      | -        |
| L-Histidine Hydrochloride-H <sub>2</sub> O           | 42       | 42       | 42       | 42       | 42       | 42       | 42       | 42       |
| L-Isoleucine   | 105      | 105      | 105      | 105      | 105      | 105      | 105      | 105      |
| L-Leucine  | 105      | 105      | 105      | 105      | 105      | 105      | 105      | 105      |
| L-Lysine Hydrochloride                               | 146      | 146      | 146      | 146      | 146      | 146      | 146      | 146      |
| L-Methionine   | 30       | 30       | 30       | 30       | 30       | 30       | 30       | 30       |
| L-Phenylalanine                                      | 66       | 66       | 66       | 66       | 66       | 66       | 66       | 66       |
| L-Serine   | 42       | 42       | 42       | 42       | 42       | 42       | 42       | 42       |
| L-Threonine  | 95       | 95       | 95       | 95       | 95       | 95       | 95       | 95       |
| L-Tryptophan   | 16       | 16       | 16       | 16       | 16       | 16       | 16       | 16       |
| L-Tyrosine Disodium Salt Dihydrate                   | 104      | 104      | 104      | 104      | 104      | 104      | 104      | 104      |
| L-Valine   | 94       | 94       | 94       | 94       | 94       | 94       | 94       | 94       |
| <b>Vitamin</b>                                       |          |          |          |          |          |          |          |          |
| Choline Chloride                                     | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| D-Calcium Pantothenate                               | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Folic Acid   | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Niacinamide  | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Pyridoxine Hydrochloride                             | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Riboflavin   | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      |
| Thiamine Hydrochlorid                                | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Meso-inositol  | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      |
| <b>Others</b>  |          |          |          |          |          |          |          |          |
| D-Glucose  | -        | -        | -        | -        | -        | -        | -        | -        |
| Sodium Pyruvate                                      | 110      | 110      | -        | -        | 110      | 110      | -        | -        |
| HEPES  | -        | -        | -        | -        | 5958     | 5958     | 5958     | 5958     |
| Phenol Red   | -        | -        | -        | -        | -        | -        | -        | -        |

**DMEM (Glucose Free) Medium Ingredient Formula\_Table 3**

| Ingredient(mg/L) / Cat.No.                           | PM150285 | PM150286 | PM150287 | PM150288 | PM150289 | PM150290 | PM150291 | PM150292 |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Inorganic Salt</b>                                |          |          |          |          |          |          |          |          |
| CaCl <sub>2</sub> (Anhydrous)                        | 200      | 200      | 200      | 200      | 200      | 200      | 200      | 200      |
| Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      | 0.1      |
| MgSO <sub>4</sub> (Anhydrous)                        | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    | 97.67    |
| KCl  | 400      | 400      | 400      | 400      | 400      | 400      | 400      | 400      |
| NaHCO <sub>3</sub>                                   | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     | 3700     |
| NaCl   | 6400     | 6400     | 6400     | 6400     | 4750     | 4750     | 4750     | 4750     |
| NaH <sub>2</sub> PO <sub>4</sub> -H <sub>2</sub> O   | 125      | 125      | 125      | 125      | 125      | 125      | 125      | 125      |
| <b>Amino Acid</b>                                    |          |          |          |          |          |          |          |          |
| L-Alanyl-L-Glutamine                                 | 869      | 869      | 869      | 869      | 869      | 869      | 869      | 869      |
| Glycine  | 30       | 30       | 30       | 30       | 30       | 30       | 30       | 30       |
| L-Arginine Hydrochloride                             | 84       | 84       | 84       | 84       | 84       | 84       | 84       | 84       |
| L-Cystine 2HCl                                       | 63       | 63       | 63       | 63       | 63       | 63       | 63       | 63       |
| L-Glutamine  | -        | -        | -        | -        | -        | -        | -        | -        |
| L-Histidine Hydrochloride-H <sub>2</sub> O           | 42       | 42       | 42       | 42       | 42       | 42       | 42       | 42       |
| L-Isoleucine   | 105      | 105      | 105      | 105      | 105      | 105      | 105      | 105      |
| L-Leucine  | 105      | 105      | 105      | 105      | 105      | 105      | 105      | 105      |
| L-Lysine Hydrochloride                               | 146      | 146      | 146      | 146      | 146      | 146      | 146      | 146      |
| L-Methionine   | 30       | 30       | 30       | 30       | 30       | 30       | 30       | 30       |
| L-Phenylalanine                                      | 66       | 66       | 66       | 66       | 66       | 66       | 66       | 66       |
| L-Serine   | 42       | 42       | 42       | 42       | 42       | 42       | 42       | 42       |
| L-Threonine  | 95       | 95       | 95       | 95       | 95       | 95       | 95       | 95       |
| L-Tryptophan   | 16       | 16       | 16       | 16       | 16       | 16       | 16       | 16       |
| L-Tyrosine Disodium Salt Dihydrate                   | 104      | 104      | 104      | 104      | 104      | 104      | 104      | 104      |
| L-Valine   | 94       | 94       | 94       | 94       | 94       | 94       | 94       | 94       |
| <b>Vitamin</b>                                       |          |          |          |          |          |          |          |          |
| Choline Chloride                                     | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| D-Calcium Pantothenate                               | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Folic Acid   | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Niacinamide  | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Pyridoxine Hydrochloride                             | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Riboflavin   | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      | 0.4      |
| Thiamine Hydrochlorid                                | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        |
| Meso-inositol  | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      | 7.2      |
| <b>Others</b>  |          |          |          |          |          |          |          |          |
| D-Glucose  | -        | -        | -        | -        | -        | -        | -        | -        |
| Sodium Pyruvate                                      | 110      | 110      | -        | -        | 110      | -        | 110      | -        |
| HEPES  | -        | -        | -        | -        | 5958     | 5958     | 5958     | 5958     |
| Phenol Red   | 15       | -        | 15       | -        | 15       | 15       | -        | -        |