

custom made

**DMEM - Medium**

without amino acids, with 4.5g/L Glucose

|                         |                                                     | standard | w/o amino acids<br>C4353 |           |
|-------------------------|-----------------------------------------------------|----------|--------------------------|-----------|
| Components              |                                                     | mg/L     | mg/L                     | mM        |
| <b>Anorganic salts</b>  | CaCl <sub>2</sub> anhydrous                         | 200.00   | 200.00                   | 1.8018    |
|                         | Fe(III)-nitrate x 9H <sub>2</sub> O                 | 0.10     | 0.10                     | 2.4752E-4 |
|                         | KCl                                                 | 400.00   | 400.00                   | 5.3333    |
|                         | MgSO <sub>4</sub>                                   | 97.66    | 97.66                    | 0.8139    |
|                         | NaCl                                                | 6400.00  | 6400.00                  | 110.3448  |
|                         | NaH <sub>2</sub> PO <sub>4</sub> x H <sub>2</sub> O | 108.69   | 108.69                   | 0.9058    |
|                         | NaHCO <sub>3</sub>                                  | 3700.00  | 3700.00                  | 44.0476   |
| <b>Other components</b> | D(+)-Glucose anhydrous                              | 4500.00  | 4500.00                  | 25.000    |
|                         | Na-pyruvat                                          | 110.00   | 110.00                   | 1.0000    |
|                         | Phenol red                                          | 15.00    | 15.00                    | 0.0399    |
| <b>Amino acids</b>      | L-Arginine x HCl                                    | 84.00    | 0.00                     | 0.00      |
|                         | L-Cystine x 2HCl                                    | 62.58    | 0.00                     | 0.00      |
|                         | L-Glutamine                                         | 584.00   | 0.00                     | 0.00      |
|                         | L-Glutamic acid                                     | 75.00    | 0.00                     | 0.00      |
|                         | Glycine                                             | 30.00    | 0.00                     | 0.00      |
|                         | L-Histidine x HCl x H <sub>2</sub> O                | 42.00    | 0.00                     | 0.00      |
|                         | L-Isoleucine                                        | 104.80   | 0.00                     | 0.00      |
|                         | L-Leucine                                           | 104.80   | 0.00                     | 0.00      |
|                         | L-Lysine x HCl                                      | 146.00   | 0.00                     | 0.00      |
|                         | L-Methionine                                        | 30.00    | 0.00                     | 0.00      |
|                         | L-Phenylalanine                                     | 66.00    | 0.00                     | 0.00      |
|                         | L-Serine                                            | 42.00    | 0.00                     | 0.00      |
|                         | L-Threonine                                         | 95.20    | 0.00                     | 0.00      |
|                         | L-Tryptophane                                       | 16.00    | 0.00                     | 0.00      |
|                         | L-Tyrosine                                          | 72.00    | 0.00                     | 0.00      |
|                         | L-Valine                                            | 93.60    | 0.00                     | 0.00      |
| <b>Vitamines</b>        | D-Ca-Pantothenate                                   | 4.00     | 4.00                     | 0.0084    |
|                         | Cholin chloride                                     | 4.00     | 4.00                     | 0.0286    |
|                         | Folic acid                                          | 4.00     | 4.00                     | 0.0091    |
|                         | myo-Inositol                                        | 7.00     | 7.00                     | 0.0400    |
|                         | Nicotinamide                                        | 4.00     | 4.00                     | 0.0328    |
|                         | Pyridoxine x HCl                                    | 4.00     | 4.00                     | 0.0194    |
|                         | Riboflavine                                         | 0.40     | 0.40                     | 0.0011    |
|                         | Thiamine x HCl                                      | 4.00     | 4.00                     | 0.0119    |