

## Product Data Sheet

**DMEM Low Glucose (1 g/l), with L-Glutamine, with Sodium Pyruvate,  
Sterile-Filtered  
Product No. GB-DMEM-500A**

### Product Description

|  |                                 |
|--|---------------------------------|
| CO <sub>2</sub> concentration, optimum | 8.5%                            |
| pH                                     | 7.0 - 7.5                       |
| Osmolality                             | 280 - 350 mOsm/kg               |
| Colour and Appearance                  | Clear red orange solution       |
| Endotoxin                              | <1 EU/ml (<0.1 ng/ml)           |
| Cell Culture                           | Tested                          |
| Sterility                              | Tested                          |
| Storage                                | +2°to +8°C protected from light |

### Formulation

| Components                          | Concentration mg/l | Molecular Weight g/mol | Concentration mM |
|-------------------------------------|--------------------|------------------------|------------------|
| <b>Amino Acids</b>                  |                    |                        |                  |
| L-Alanyl-L-Glutamine (in E0500-120) | 862.00             | 217.22                 | 3.97             |
| L-Arginine HCl                      | 84.00              | 210.66                 | 0.40             |
| L-Cystine 2HCl                      | 48.00              | 240.30                 | 0.20             |
| L-Glutamine (in E0500-110)          | 584.00             | 146.15                 | 4.00             |
| Glycine                             | 30.00              | 75.07                  | 0.40             |
| L-Histidine HCl H <sub>2</sub> O    | 42.00              | 209.63                 | 0.20             |
| L-Isoleucine                        | 105.00             | 131.17                 | 0.80             |
| L-Leucine                           | 105.00             | 131.17                 | 0.80             |
| L-Lysine HCl                        | 146.00             | 182.65                 | 0.80             |
| L-Methionine                        | 30.00              | 149.21                 | 0.20             |
| L-Phenylalanine                     | 66.00              | 165.19                 | 0.40             |
| L-Serine                            | 42.00              | 105.09                 | 0.40             |
| L-Threonine                         | 95.00              | 119.12                 | 0.80             |
| L-Tryptophan                        | 16.00              | 204.23                 | 0.0783           |
| L-Tyrosine 2 Na                     | 89.47              | 225.15                 | 0.40             |
| L-Valine                            | 94.00              | 117.15                 | 0.80             |



**GOSLAR BIOTECH**  
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| Components                           | Concentration mg/l | Molecular Weight g/mol | Concentration mM |
|--------------------------------------|--------------------|------------------------|------------------|
| <b>Vitamins</b>                      |                    |                        |                  |
| Choline chloride                     | 4.00               | 139.62                 | 0.0286           |
| D-Calcium Pantothenate               | 4.00               | 476.53                 | 0.0084           |
| Folic Acid                           | 4.00               | 441.40                 | 0.0091           |
| myo-Inositol                         | 7.20               | 180.16                 | 0.0400           |
| Nicotinamide                         | 4.00               | 122.12                 | 0.0328           |
| Pyridoxal HCl                        | 4.00               | 203.62                 | 0.0196           |
| Riboflavin                           | 0.40               | 376.36                 | 0.0011           |
| Thiamine HCl                         | 4.00               | 337.27                 | 0.0119           |
| <b>Inorganic Salts</b>               |                    |                        |                  |
| Calcium Chloride 2 H <sub>2</sub> O  | 265.00             | 147.01                 | 1.80             |
| Iron(III) Nitrate 9 H <sub>2</sub> O | 0.10               | 404.00                 | 0.00025          |
| Magnesium Sulfate                    | 97.67              | 120.37                 | 0.81             |
| Potassium Chloride                   | 400.00             | 74.55                  | 5.37             |
| Sodium Bicarbonate                   | 3700.00            | 84.01                  | 44.04            |
| Sodium Chloride                      | 6400.00            | 58.44                  | 109.51           |
| Sodium Phosphate Monobasic Anhydrous | 109.00             | 119.98                 | 0.91             |
| <b>Other Components</b>              |                    |                        |                  |
| D-Glucose                            | 1000.00            | 180.16                 | 5.55             |
| Phenol Red Sodium Salt               | 15.90              | 376.36                 | 0.04             |
| Sodium Pyruvate                      | 110.00             | 110.04                 | 1.00             |

### Precautions and Disclaimer

This product is for research use only.