



ISO 13485:2016 Certified | GMP Certified

2235 Cornell Ave. Montgomery, IL 60538 | (800) 246 - 4088 | CustomerService@Biologos.com | Biologos.com

## SPECIFICATION SHEET

**PRODUCT: Minimum Essential Medium (MEM), Biologos**

**0.2µ Sterile Filtered**

**Catalog Number: LBE001**

### MEDIA FORMULATION

#### LBE001

Minimum Essential Medium (MEM), Biologos  
Without L-Glutamine

<i>Components</i>	<i>mg/L</i>
<b>INORGANIC SALTS</b>	
Calcium Chloride, anhydrous (CaCl <sub>2</sub> ).....	264.9000
Magnesium Sulfate (MgSO <sub>4</sub> ), anhydrous.....	97.6700
Potassium Chloride (KCl).....	400.0000
Sodium Chloride (NaCl).....	6800.0000
Sodium Phosphate, Monobasic, Monohydrate (Na <sub>2</sub> HPO <sub>4</sub> ·H <sub>2</sub> O).....	140.0000
<b>OTHER COMPONENTS</b>	
D-Glucose, Anhydrous (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> ).....	1000.0000
Phenol Red (C <sub>19</sub> H <sub>13</sub> NaO <sub>5</sub> S).....	17.0000
Sodium Bicarbonate (NaHCO <sub>3</sub> ).....	2200.0000
<b>AMINO ACIDS</b>	
L-Arginine, Hydrochloride (C <sub>6</sub> H <sub>15</sub> ClN <sub>4</sub> O <sub>2</sub> ).....	21.0600
L-Cystine, dihydrochloride (C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> ·2HCl).....	12.0100
L-Histidine, Hydrochloride, Monohydrate (C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ·HCl·H <sub>2</sub> O).....	1050.0000
L-Isoleucine (C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> ).....	26.2300
L-Leucine (C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> ).....	26.2300
L-Lysine, Hydrochloride (C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> ·HCl).....	36.5300
L-Methionine (C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S).....	7.4600
L-Phenylalanine (C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> ).....	16.5100
L-Threonine (C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> ).....	23.8200
L-Tryptophan (C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> ).....	4.0800
L-Tyrosine, Disodium, Dihydrate (C <sub>9</sub> H <sub>9</sub> NO <sub>3</sub> Na <sub>2</sub> ·2H <sub>2</sub> O).....	18.1100
L-Valine (C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> ).....	23.4300





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**MEDIA FORMULATION (CONTINUED)**

<i>Components</i>	<i>mg/L</i>
<b>VITAMINS</b>	
D-Biotin (C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S).....	1.0000
Choline Chloride (C <sub>5</sub> H <sub>14</sub> ClNO).....	1.0000
D-Calcium Pantothenate (C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub> ).....	1.0000
Folic Acid (C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub> ).....	1.0000
Myo-Inositol (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> ).....	2.0000
Nicotinamide (C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O).....	1.0000
Pyridoxal HCl (C <sub>8</sub> H <sub>9</sub> NO <sub>3</sub> ·HCl).....	1.0000
Riboflavin (C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> ).....	0.1000
Thimaine HCl (C <sub>12</sub> H <sub>17</sub> ClN <sub>4</sub> OS·HCl).....	1.0000

**ASSAY:**

**SPECIFICATION**

Appearance	Clear, Red Solution
pH	6.9 - 7.3
Sterility per 9 CFR 113.26	
Fungal	NEGATIVE
Bacterial	NEGATIVE
Osmolality	285 - 315 mOsm/kg H <sub>2</sub> O

**Minimum Recommended Expiration Date:** [2 years from date of manufacturing]

**Storage** 2° - 8°

Approved by:

5/4/2018

Quality and Compliance Manager