



ISO 13485:2016 Certified | GMP Certified

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

## SPECIFICATION SHEET

**PRODUCT: DULBECCO'S MODIFIED EAGLE MEDIUM (1X)**

**W/HIGH GLUCOSE, SODIUM PYRUVATE, L-GLUTAMINE & PHENOL RED**

**Sterile Filtered 0.2 $\mu$**

**Catalog Number: LDH0111**

### MEDIA FORMULATION

#### LDH0111

Dulbecco's Modified Eagle Medium (1X)  
w/High Glucose, Sodium Pyruvate, L-Glutamine & Phenol Red

<u>Components</u>	<u>mg/Liter</u>
<b>INORGANIC SALTS</b>	
Calcium Chloride, Anhydrous (CaCl <sub>2</sub> )	200.000
Ferric Nitrate, Nonahydrate (Fe(NO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O)	0.10000
Potassium Chloride (KCl)	400.000
Magnesium Sulfate, Anhydrous (MgSO <sub>4</sub> )	97.6700
Sodium Chloride (NaCl)	6400.00
Sodium Bicarbonate (NaHCO <sub>3</sub> )	3700.00
Sodium Phosphate, Monobasic, Monohydrate (NaH <sub>2</sub> PO <sub>4</sub> · H <sub>2</sub> O)	125.000
<b>OTHER COMPONENTS</b>	
D-Glucose, Anhydrous (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	4500.00
Phenol Red, Sodium Salt (C <sub>19</sub> H <sub>13</sub> NaO <sub>5</sub> S)	15.0000
Pyruvic Acid, Sodium Salt (C <sub>3</sub> H <sub>3</sub> NaO <sub>3</sub> )	110.000
<b>AMINO ACIDS</b>	
L-Arginine, Hydrochloride (C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> · HCl)	84.0000
L-Cystine, Dihydrochloride (C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> · 2HCl)	63.0000
L-Glutamine (C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> )	584.000
Glycine (C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> )	30.0000
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)	42.0000
L-Isoleucine (C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	105.000
L-Leucine (C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	105.000
L-Lysine, Hydrochloride (C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> · HCl)	146.000
L-Methionine (C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S)	30.0000
L-Phenylalanine (C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> )	66.0000
L-Serine (C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> )	42.0000
L-Threonine (C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> )	95.0000
L-Tryptophan (C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> )	16.0000
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)	104.000
L-Valine (C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> )	94.0000

**Not for Human or Animal Consumption.**

**For Further Manufacturing Use Only.**

SPEC-LDH0111.02



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**MEDIA FORMULATION (CONTINUED)**

**LDH0111**

Dulbecco's Modified Eagle Medium (1X)  
w/High Glucose, Sodium Pyruvate, L-Glutamine & Phenol Red

<b><u>Components</u></b>	<b><u>mg/Liter</u></b>
<b><u>VITAMINS</u></b>	
D-Calcium Pantothenate (C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub> )	4.00000
Choline Chloride (C <sub>5</sub> H <sub>14</sub> ONCl)	4.00000
Folic Acid (C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub> )	4.00000
Myo-Inositol (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	7.20000
Niacinamide (C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O)	4.00000
Pyridoxine, Hydrochloride (C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub> · HCl)	4.00000
Riboflavin (C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> )	0.40000
Thiamine, Hydrochloride (C <sub>12</sub> H <sub>17</sub> ClN <sub>4</sub> OS · HCl)	4.00000

**ASSAY:**

Appearance  
pH  
Osmolality  
Sterility per 9 CFR 113.26

**SPECIFICATION:**

Clear, Red Solution  
7.0 - 7.4  
Measure and Record

Fungal	NEGATIVE
Bacterial	NEGATIVE

Storage: 2° - 8°C

**Minimum Recommended Expiration Date:** [18 Months from Date of Manufacturing]

Approved by:

12/4/2020

Seth Rindner

Date

Customer Representative

Date

Quality and Compliance Manager

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