

### ★ Storage

Store at 2 -8°C.

### ✦ Contents

- Product Manual
- Iscove's Modified Dulbecco's Media(IMDM)

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Shipping Condition

Ship at ambient

### ★ Introduction

Guilbert and Iscove published their modifications to Dulbecco's Modified Eagle's Medium (DMEM) in 1976. Their modifications included the supplements of selenium, additional vitamins and amino acids, sodium pyruvate and HEPES buffer. In addition, ferric nitrate was replaced with potassium nitrate. When further supplemented with albumin, lecithin, and transferrin, this medium supported the growth of precursor cells of macrophages and erythrocytes without serum supplementation. Iscove's Medium has since been shown to support murine B lymphocytes, hemopoietic tissue from bone marrow, B cells stimulated with lipopolysaccharide, T lymphocytes, and a variety of hybrid cells.

### ★ Formulation

Amino Acids	mg/L
Glycine (C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> )	30.00
L-Alanine(C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> )	25.00
L-Arginine, Hydrochloride(C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> .HCl)	84.00
L-Asparagine, Monohydrate(C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> .HCl)	25.00
L-Aspartic Acid(C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub> )	30.00
L-Cysteine, Hydrochloride, Mono(C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub> .HCl.H <sub>2</sub> O)	91.20
L-Glutamic Acid(C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> )	95.00
L-Glutamine(C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> )	584.00
L-Histidine(C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> .HCl.H <sub>2</sub> O)	42.00
L-Isoleucine(C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	105.00
L-Leucine(C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	105.00
L-Lysine, Hydrochloride(C <sub>6</sub> H <sub>11</sub> N <sub>2</sub> O <sub>2</sub> .HCl)	146.00
L-Methionine(C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S)	30.00
L-Phenylalanine(C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> )	66.00
L-Proline(C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub> )	40.00

Amino Acids	mg/L
L-Serine(C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> )	42.00
L-Threonine(C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> )	95.00
L-Tryptophan(C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> )	16.00
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)	104.00
L-Valine(C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> )	94.00

Inorganic Salts	mg/L
Calcium Chloride, Anhydrous (CaCl <sub>2</sub> )	165.00
Magnesium Sulfate, Anhydrous(MgSO <sub>4</sub> )	98.00
Potassium Chloride(KCl)	330.00
Potassium Nitrate(KNO <sub>3</sub> )	0.076
Selenious Acid(H <sub>2</sub> SeO <sub>3</sub> )	0.017
Sodium Bicarbonate(NaHCO <sub>3</sub> )	3024.00
Sodium Chloride(NaCl)	4500.00
Sodium Phosphate, Monobasic(NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> O)	125.00

Vitamins	mg/L
Biotin(C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S)	0.013
Choline Chloride(C <sub>5</sub> H <sub>14</sub> ClNO)	4.00
D-Calcium Pantothenate(C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub> )	4.00
Folic Acid(C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub> )	4.00
Myo-Inositol(C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	7.20
Niacinamide(C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O)	4.00
Pyridoxal, Hydrochloride(C <sub>8</sub> H <sub>9</sub> NO <sub>3</sub> .HCl)	4.00
Riboflavin(C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> )	0.40
Thiamine, Hydrochloride(C <sub>12</sub> H <sub>17</sub> ClN <sub>4</sub> OS.HCl)	4.00
Vitamine B12(C <sub>63</sub> H <sub>88</sub> CoN <sub>14</sub> O <sub>14</sub> P)	0.013

Other Components	mg/L
D-Glucose(C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	4500.00
HEPES(C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S)	5958.00
Pyruvic Adic, Sodium Salt(C <sub>3</sub> H <sub>3</sub> NaO <sub>3</sub> )	110.00