

### ★ Storage

Store at 2 -8°C.

### ★ Contents

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- RPMI-1640

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

RPMI-1640 was developed in 1966 by Moore and his co-workers at Roswell Park Memorial Institute (hence the acronym RPMI). It is based on the RPMI-1630 series of media utilizing a bicarbonate buffering system and alterations in the amounts of amino acids and vitamins. While it was originally formulated to support lymphoblastoid in suspension culture, it has been proven to support a wide variety of anchorage-dependant cells. It has a wide range of uses, including the culture of fresh human lymphocytes, fusion protocols, and in the growth of hybrid cells.

### ★ Formulation

Amino Acids	mg/L
Glycine (C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> )	10.00
L-Arginine (C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> )	200.00
L-Asparagine (C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> )	50.00
L-Aspartic Acid(C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub> )	20.00
L-Cystine, Dihydrochloride(C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub> .2HCl)	65.00
L-Glutamic Acid(C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub> )	20.00
L-Glutamine(C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> )	300.00
L-Histidine(C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> )	15.00
L-Hydroxyproline(C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> )	20.00
L-Isoleucine(C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	50.00
L-Leucine(C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	50.00
L-Lysine, Hydrochloride(C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> .HCl)	40.00
L-Methionine(C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S)	15.00
L-Phenylalanine(C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> )	15.00
L-Proline(C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub> )	20.00

Amino Acids	mg/L
L-Serine(C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> )	30.00
L-Threonine(C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> )	20.00
L-Tryptophan(C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> )	5.00
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)	29.00
L-Valine(C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> )	20.00

Inorganic Salts	mg/L
Calcium Nitrate, Tetrahydrate(Ca(NO <sub>3</sub> ) <sub>2</sub> .4H <sub>2</sub> O)	100.00
Magnesium Sulfate, Anhydrous(MgSO <sub>4</sub> )	48.84
Potassium Chloride(KCl)	400.00
Sodium Bicarbonate(NaHCO <sub>3</sub> )	2000.00
Sodium Chloride(NaCl)	5850.00
Sodium Phosphate,Dibasic(NaH <sub>2</sub> PO <sub>4</sub> )	800.00

Vitamins	mg/L
Biotin(C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S)	0.20
Choline Chloride(C <sub>5</sub> H <sub>14</sub> ClNO)	3.00
D-Calcium Pantothenate(C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub> )	0.25
Folic Acid(C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub> )	1.00
Myo-Inositol(C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	35.00
Niacinamide(C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O)	1.00
Para-Aminobenzoic Acid(C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub> )	1.00
Pyridoxine, Hydrochloride(C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub> .HCl)	1.00
Riboflavin(C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> )	0.20
Thiamine, Hydrochloride(C <sub>12</sub> H <sub>17</sub> ClN <sub>4</sub> OS.HCl)	1.00
Vitamin B12(C <sub>63</sub> H <sub>88</sub> CoN <sub>14</sub> O <sub>14</sub> P)	0.005

Other Components	mg/L
D-Glucose, Anhydrous(C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	2000.00
Glutathione, Reduced(C <sub>10</sub> H <sub>17</sub> N <sub>3</sub> O <sub>6</sub> S)	1.00
HEPES(C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S)	5958.00
Phenol Red, Sodium Salt(C <sub>19</sub> H <sub>13</sub> NaO <sub>5</sub> S)	5.00