

### ★ Storage

Store at 2 -8°C.

### ✈ Contents

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- IPL-41

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

IPL-41 were developed in a series of media by a group from the United States Department of Agriculture (USDA) Insect Pathology Laboratory, IPL-41 is a modification of Goodwin's original IPL formulation. It was originally designed to support the growth and maintenance of cell lines descendant from lepidopteran species and the propagation of viruses within these cells. It has also been used for large scale production of baculovirus.

### ★ Formulation

Amino Acids	mg/L
beta-Alanine(C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> )	300.00
Glycine (C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> )	200.00
L-Arginine, Hydrochloride(C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> .HCl)	800.00
L-Asparagine, Monohydrate(C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> .HCl)	1300.00
L-Aspartic Acid(C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub> )	1300.00
L-Cysteine, Hydrochloride, Mono(C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> .HCl.H <sub>2</sub> O)	130.47
L-Glutamic Acid(C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub> )	1500.00
L-Glutamine(C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> )	1000.00
L-Histidine(C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> .HCl.H <sub>2</sub> O)	200.00
L-Hydroxyproline(C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> )	800.00
L-Isoleucine(C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	750.00
L-Leucine(C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> )	250.00
L-Lysine, Hydrochloride(C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> .HCl)	700.00
L-Methionine(C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S)	1000.00
L-Phenylalanine(C <sub>9</sub> H <sub>9</sub> NO <sub>2</sub> )	1000.00
L-Proline(C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub> )	500.00

Amino Acids	mg/L
L-Serine(C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> )	200.00
L-Threonine(C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> )	200.00
L-Tryptophan(C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> )	100.00
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)	360.40
L-Valine(C <sub>6</sub> H <sub>11</sub> NO <sub>2</sub> )	500.00

Inorganic Salts	mg/L
Calcium Chloride, Anhydrous (CaCl <sub>2</sub> )	500.00
Cobalt Chloride, Hexahydrate(CoCl <sub>2</sub> .6H <sub>2</sub> O)	0.05
Cupric Sulfate, Pentahydrate(CuSO <sub>4</sub> .5H <sub>2</sub> O)	0.20
Ferrous Sulfate, Heptahydrate(FeSO <sub>4</sub> .7H <sub>2</sub> O)	0.55
Magnesium Chloride, Anhydrous(MgCl <sub>2</sub> )	0.02
Magnesium Sulfate, Anhydrous(MgSO <sub>4</sub> )	918.00
Molybdic Acid Hexaammonium Salt((NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> .4H <sub>2</sub> O)	0.02
Potassium Chloride(KCl)	1200.00
Sodium Bicarbonate(NaHCO <sub>3</sub> )	350.00
Sodium Chloride(NaCl)	2850.00
Sodium Phosphate, Dibasic, Anhydrous(Na <sub>2</sub> HPO <sub>4</sub> )	1160.00
Zinc Sulfate, Heptahydrate(ZnSO <sub>4</sub> .7H <sub>2</sub> O)	0.04

### ★ Formulation

Vitamins	mg/L
Biotin(C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S)	0.16
Choline Chloride(C <sub>5</sub> H <sub>14</sub> ClNO)	20.00
D-Calcium Pantothenate(C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub> )	0.008
Folic Acid(C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>5</sub> )	0.08
Myo-Inositol(C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	0.40
Nicotinic Acid(C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub> )	0.16
Para-Aminobenzoic Acid(C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub> )	0.32
Pyridoxine, Hydrochloride(C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub> .HCl)	0.40
Riboflavin(C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> )	0.08
Succinic Acid(C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> )	4.80
Thiamine, Hydrochloride(C <sub>12</sub> H <sub>17</sub> ClN <sub>4</sub> OS.HCl)	0.08
Vitamine B12(C <sub>63</sub> H <sub>88</sub> CoN <sub>14</sub> O <sub>14</sub> P)	0.24

Other Components	mg/L
a-Ketoglutaric Acid(C <sub>5</sub> H <sub>6</sub> O <sub>5</sub> )	29.60
D-Glucose(C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	2500.00
Fumaric Acid(C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> )	4.40
L-Malic Acid(C <sub>4</sub> H <sub>6</sub> O <sub>5</sub> )	53.60
Maltose, Monohydrate(C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> .H <sub>2</sub> O)	1000.00
Sucrose(C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> )	1650.00