

## LoSera™ Minimum Essential Medium Eagle

With Earle's salts, L-Alanyl-L-Glutamine, NEAA and Sodium bicarbonate  
 1X Liquid Cell Culture Medium requiring reduced serum supplementation

**Product Code: RSL008G**

### Product Description:

LoSera™ media are based on the classical formulations supplemented with insulin, transferrin and other advanced nutrients. The additional nutrients help in reducing the percentage of serum required to grow most of the common cell lines. The percentage of serum reduction may vary with type of cell line used. For non-fastidious cell lines serum can be reduced from 10% to as low as 1%. For fastidious cell lines serum usage can be reduced from 10% to 2.5%. LoSera™ medium can be used without prior adaptation and sub cultured using normal procedures. Reduced serum supplementation improves the reproducibility of experimental results by decreasing the variability caused due to undefined serum constituents. It also facilitates down regulation process in bioassays and in purification process of culture products.

RSL008G is LoSera™ Minimum Essential Medium Eagle with Earle's salts, L-alanyl-l-glutamine, NEAA and sodium bicarbonate. L-alanyl-L-glutamine is the stabilized dipeptide form of L-glutamine. Dipeptide form prevents the intramolecular cyclization reaction, thus preventing toxic build-up of ammonia. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

### Composition:

Ingredients	mg/L
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	265.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	2200.000
Sodium chloride	6800.000
Sodium dihydrogen phosphate anhydrous	122.000
<b>AMINO ACIDS</b>	
Glycine	7.500
L-Alanine	8.900
L-Alanyl-L-Glutamine	868.000
L-Arginine hydrochloride	126.000

L-Asparagine monohydrate	15.000
L-Aspartic acid	13.300
L-Cystine dihydrochloride	31.300
L-Glutamic acid	14.700
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	52.000
L-Leucine	52.000
L-Lysine hydrochloride	72.500
L-Methionine	15.000
L-Phenylalanine	32.000
L-Proline	11.500
L-Serine	10.500
L-Threonine	48.000
L-Tryptophan	10.000
L-Tyrosine disodium salt dihydrate	51.900
L-Valine	46.000
<b>VITAMINS</b>	
Choline chloride	1.000
D-Ca-Pantothenate	1.000
Folic acid	1.000
Nicotinamide	1.000
Pyridoxal hydrochloride	1.000
Riboflavin	0.100
Thiamine hydrochloride	1.000
i-Inositol	2.000
<b>OTHERS</b>	
D-Glucose	1000.000
Growth Supplement mix	Proprietary
Phenol red sodium salt	11.000

### Directions :

#### Recommendations for use with LoSera™ Media:

1. LoSera™ media have been optimized at 2.5% serum concentration for a broad range of cell culture applications. Recommended concentrations of serum using LoSera™ media ranges from 1-5%. However the concentration of serum used may need to be adjusted for specific cell types or applications to achieve optimal results. Titration of FBS concentration is recommended to determine maximum serum reduction.

2. In case of antibiotics being used to control contamination, it is recommended to reduce the amount of antibiotics in proportion to the amount of serum reduced.

### **Material required but not provided:**

Fetal Bovine Serum (RM1112/RM10432)

### **Quality Control:**

#### **Appearance**

Orangish red colored, clear solution.

#### **pH**

7.00 -7.60

#### **Osmolality in mOsm/Kg H<sub>2</sub>O**

280.00 -320.00

#### **Sterility**

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

#### **Cultural Response**

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control medium.

### **Storage and Shelf Life:**

Store at 2-8°C away from bright light.

Shelf life is 12 months.

Use before expiry date given on the product label.

#### **Disclaimer :**

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