

48.840

0.000151

0.00012

311.800

1200.000

6996.000

54.300

0.0142

0.00519

0.00011

0.432

18.750

4.450

542.500

147.500

7.500

6.650

17.560

31.290

31.480

54.470

59.050

91.250

17.240

7.350



LoSera™ Dulbecco's Modified Eagle **Medium/Nutrient Mixture F-12 Ham (DMEM/** F12, 1:1 Mixture)

With L-Alanyl-L-Glutamine, HEPES buffer, Sodium bicarbonate and Trace elements 1X Liquid Cell Culture Medium requiring reduced serum supplementation

Magnesium sulphate anhydrous

Sodium dihydrogen phosphate

Stannous chloride dihydrate

Zinc sulphate heptahydrate

L-Alanyl-L-Glutamine

L-Arginine hydrochloride

L-Asparagine monohydrate

L-Cystine dihydrochloride

L-Lysine hydrochloride

L-Cysteine hydrochloride monohydrate

L-Histidine hydrochloride monohydrate

Sodium metasillicate nonahydrate

Manganese sulphate

Potassium chloride

Sodium bicarbonate

Sodium chloride

monohydrate

Sodium selenite

AMINO ACIDS

L-Aspartic acid

L-Glutamic acid

L-Isoleucine

L-Methionine

L-Phenylalanine

L-Leucine

Glycine

L-Alanine

Nickel chloride

Product Code: RSL006G

Product Description:

LoSeraTM 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 nonfastidious 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.

RSL006G is LoSeraTM DMEM/Nutrient Mixture F-12 Ham with L-alanyl-l-glutamine, trace elements, sodium bicarbonate and 15mM HEPES buffer. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering capacity of the medium. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition

Composition		L-Phenylalanine	35.480
Composition:		L-Proline	17.250
Ingredients	mg/L	L-Serine	26.250
INORGANIC SALTS		L-Threonine	53.450
Ammonium metavanadate	0.00058	L-Tryptophan	9.020
Ammonium molybdate tetrahydrate	0.00618	L-Tyrosine disodium salt dihydrate	48.100
Calcium chloride dihydrate	154.500	L-Valine	52.850
Copper sulphate pentahydrate	0.0013	VITAMINS	
Disodium hydrogen phosphate	71.020	Choline chloride	8.980
Ferric nitrate ninahydrate	0.050	D-Biotin	0.0035
Ferrous sulphate heptahydrate	0.417	D-Ca-Pantothenate	2.240
Magnesium chloride hexahydrate	61.200	Folic acid	2.660

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HIMEDIA

Niacinamide	2.020
Pyridoxal hydrochloride	2.000
Pyridoxine hydrochloride	0.031
Riboflavin	0.219
Thiamine hydrochloride	2.170
Vitamin B12	0.680
myo-Inositol	12.600
OTHERS	
D-Glucose	3151.000
DL-Thioctic acid	0.105
Growth Supplement mix	Proprietary
HEPES buffer	3574.500
Hypoxanthine sodium salt	2.400
Linoleic acid	0.042
Phenol red sodium salt	8.630
Putrescine hydrochloride	0.081
Sodium pyruvate	110.000
Thymidine	0.365

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.

Directions:

Recommendations for use with LoSeraTM Media:

- 1. LoSeraTM media have been optimized at 2.5% serum concentration for a broad range of cell culture applications. Recommended concentrations of serum using LoSeraTM 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

Red colored, clear solution.

pН

7.00 - 7.60

Osmolality in mOsm/Kg H₂O

300.00 -340.00

Sterility

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

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