



6996.000

54.300

0.0142

0.00519

0.00011

0.432

18.750

4.450

7.500

6.650

17.560

31.290

7.350

31.480

54.470

59.050

91.250

17.240

35.480

17.250

147.500

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

Sodium chloride

monohydrate

Sodium selenite

AMINO ACIDS

L-Aspartic acid

L-Glutamic acid

L-Isoleucine

L-Methionine

L-Phenylalanine

L-Leucine

L-Proline

Glycine

L-Alanine

Sodium dihydrogen phosphate

Stannous chloride dihydrate

Zinc sulphate heptahydrate

L-Arginine hydrochloride

L-Asparagine monohydrate

L-Cysteine dihydrochloride

L-Lysine hydrochloride

L-Cystine hydrochloride monohydrate

L-Histidine hydrochloride monohydrate

Sodium metasillicate nonahydrate

With Trace elements and Sodium bicarbonate Without L-Glutamine and HEPES buffer 1X Liquid Cell Culture Medium requiring reduced serum supplementation

Product Code: RSL005

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%. LoSeraTM 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.

RSL005 is LoSeraTM DMEM/Nutrient Mixture F-12 Ham with trace elements and sodium bicarbonate. It does not contain L-glutamine and HEPES buffer. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition:		L-Serine	26.250
composition:		L-Threonine	53.450
Ingredients	mg/L	L-Tryptophan	9.020
INORGANIC SALTS		L-Tyrosine disodium salt	48.100
Ammonium metavanadate	0.00058	L-Valine	52.850
Ammonium molybdate tetrahydrate	0.00618	VITAMINS	
Calcium chloride dihydrate	154.500	Choline chloride	8.980
Copper sulphate pentahydrate	0.0013	D-Biotin	0.0035
Disodium hydrogen phosphate	71.020	D-Pantothenic acid	2.240
Ferric nitrate nonahydrate	0.050	Folic acid	2.660
Ferrous sulphate heptahydrate	0.417	Niacinamide	2.020
Magnesium chloride hexahydrate	61.200	Pyridoxal hydrochloride	2.000
Magnesium sulphate anhydrous	48.840	Pyridoxine hydrochloride	0.031
Manganese sulphate	0.000151	Riboflavin	0.219
Nickel chloride	0.00012	Thiamine hydrochloride	2.170
Potassium chloride	311.800	Vitamin B12	0.680
Sodium bicarbonate	1200.000	myo-Inositol	12.600

OTHERS

D-Glucose	3151.000
DL-Thioctic Acid	0.105
Growth Supplement mix	1.000
Hypoxanthine	2.400
Linoleic acid	0.042
Phenol red sodium salt	8.630
Putrescine hydrochloride	0.081
Sodium pyruvate	110.000

Directions:

1. Add 20ml of 200mM L-glutamine (TCL012) or HiGlutaXLTM supplement (TCL030) for 1 litre of medium.

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. $LoSera^{TM}$ media are provided as 1X solutions and need to be supplemented with 4mM L-glutamine and required amount of reduced serum.
- 3. 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:

L-Glutamine solution 200mM (TCL012) HiGlutaXLTM supplement (TCL030) Fetal Bovine Serum (RM1112/RM10432)

Quality Control:

Appearance

Red colored, clear solution.

pН

7.00 - 7.60

Osmolality in mOsm/Kg H2O

310.00 - 350.00

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 through minimum three subcultures.

Endotoxin Content

NMT 5EU/ml

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.

Revision: 1/2012

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMediaTM publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMediaTM Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.