

311.800

1200.000

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

147.500



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

Potassium chloride

Sodium bicarbonate

Sodium dihydrogen phosphate

Stannous chloride dihydrate

Zinc sulphate heptahydrate

L-Arginine hydrochloride

L-Asparagine monohydrate

L-Cystine dihydrochloride

L-Lysine hydrochloride

L-Cysteine hydrochloride monohydrate

L-Histidine hydrochloride monohydrate

Sodium metasillicate nonahydrate

Sodium chloride

Sodium selenite

AMINO ACIDS

L-Aspartic acid

L-Glutamic acid

L-Isoleucine

L-Methionine

L-Leucine

Glycine

L-Alanine

monohydrate

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%. 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.

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.

			17.240
Composition:		L-Phenylalanine	35.480
Ingredients	mg/L	L-Proline	17.250
INORGANIC SALTS	mg/L	L-Serine	26.250
	0.00058	L-Threonine	53.450
Ammonium metavanadate	0.00618	L-Tryptophan	9.020
Ammonium molybdate tetrahydrate		L-Tyrosine disodium salt dihydrate	
Calcium chloride dihydrate	154.500	j j	48.100
Copper sulphate pentahydrate	0.0013	L-Valine	52.850
Disodium hydrogen phosphate	71.020	VITAMINS	
Ferric nitrate nonahydrate	0.050	Choline chloride	8.980
Ferrous sulphate heptahydrate	0.417	D-Biotin	0.0035
1 1 1	61.200	D-Ca-Pantothenate	2.240
Magnesium chloride hexahydrate		Folic acid	2.660
Magnesium sulphate anhydrous	48.840	Niacinamide	2.020
Manganese sulphate	0.000151		2.000
Nickel chloride	0.00012	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	Proprietory
Hypoxanthine sodium salt	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[™] 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

270.00 -310.00

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: Revision: 03/2022

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