



LoSera™ Media

The LoSera™ range of products have been developed using classical media formulations and fortified with additional nutrients to make your media more nutritious, more cost effective and more consistent.

Advantage of LoSera™ media over standard media

- Reduces serum consumption by 50 to 90%
- Reduces cost of medium
- Improves reproducibility due to decrease in lot to lot variations of sera
- No adaptation or weaning required
- Reduces protein interference in bioassays
- Easier purification of culture products

Applications of LoSera™ media

1. Can be used for most of the common cell lines both adherent and suspension
2. Prevents fibroblast overgrowth in primary culture

Reduces serum consumption

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 20% to 2.5%. LoSera™ medium gives comparable cell yield and proliferation rate over classical medium supplemented with 10% serum.

Saves Time and Money

Losera™ medium can be used without prior adaptation and sub cultured using normal procedures. Reduced serum supplementation increases the life of your serum and saves time in qualifying new lots.

Improves Reproducibility

Reduced serum supplementation improves the reproducibility of your 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.

Suitability of Losera™ RPMI 1640 for Cell Culture of Multiple Cell Types

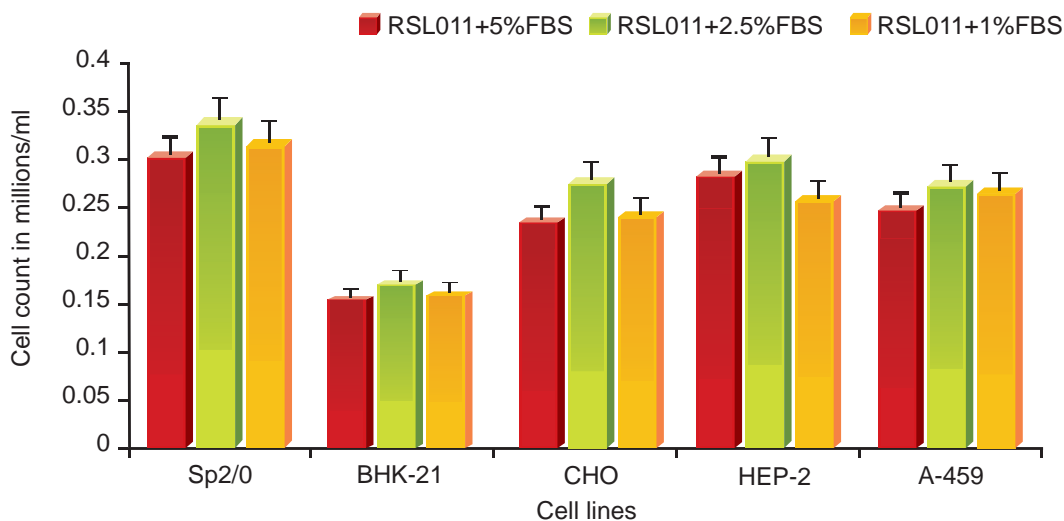


Fig 1.1: Comparative performance of LoSera™ RPMI 1640 Vs RPMI 1640 supplemented with 5% FBS

Losera™ RPMI 1640 supplemented with 2.5% FBS, 1% FBS (Foetal Bovine Serum) and 4mM L-Glutamine was compared to RPMI 1640 supplemented with 5% FBS for growth promotion test for various cell lines. Seeding densities varied as per the cell line. Cells were seeded in triplicate in a 48 well plate and incubated at 37°C with 5% CO₂ and 95% air over a 4 day passage cycle. Samples were taken daily and evaluated for cell density and morphology. Data depicted in the graph represents the average count obtained on day 4 of the third passage. Cell growth and morphology was comparable in all media.

Suitability of Losera™ DMEM for Cell Culture of Multiple Cell Types

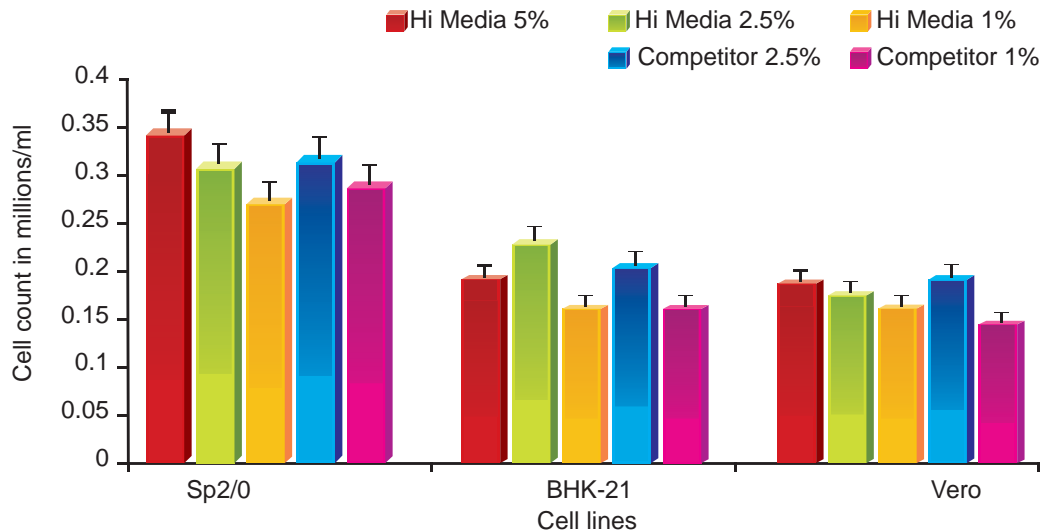


Fig 1.2: Comparative performance of Losera™ DMEM Vs Competitors Reduced Serum Medium

Losera™ Dulbecco's Modified Eagle Medium (DMEM) supplemented with 2.5% FBS, 1% FBS and 4mM L-Glutamine was compared to classical DMEM supplemented with 5% FBS and competitor's DMEM supplemented with 2.5% FBS and 1% FBS for growth promotion test for various cell lines. Seeding densities varied as per the cell line. Cells were seeded in triplicate in a 48 well plate and incubated at 37°C with 5% CO₂ and 95% air over a 4 day passage cycle. Samples were taken daily and evaluated for cell density and morphology. Data depicted in the graph represents the average count obtained on day 4 of the third passage. Cell growth and morphology was comparable in all media.

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) LoSera™ media are provided as 1X solutions and need to be supplemented with 4mM 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.



Ordering Information

Name of the Medium		Codes
LoSera™ Dulbecco's Modified Eagle Medium (High Glucose)	w/ Sodium pyruvate and Sodium bicarbonate w/o L- Glutamine	RSL003
LoSera™ Dulbecco's Modified Eagle Medium High Glucose	w/ L-Alanyl-L-Glutamine, Sodium pyruvate and Sodium bicarbonate	RSL003G
LoSera™ Dulbecco's Modified Eagle Medium/ Nutrient Mixture F-12 Ham (1:1)	w/ Trace elements and Sodium bicarbonate w/o L- Glutamine and HEPES buffer	RSL005
LoSera™ Dulbecco's Modified Eagle Medium/ Nutrient Mixture F-12 Ham (1:1)	w/ HEPES buffer, Sodium bicarbonate and Trace elements w/o L- Glutamine	RSL006
LoSera™ Dulbecco's Modified Eagle Medium/ Nutrient Mixture F-12 Ham (1:1)	w/ L-Alanyl-L-Glutamine, HEPES buffer, Sodium bicarbonate and Trace elements	RSL006G
LoSera™ Iscove's Modified Dulbecco's Medium	w/ HEPES buffer and Sodium bicarbonate w/o L- Glutamine	RSL007
LoSera™ Minimum Essential Medium Eagle	w/ Earle's salts, NEAA and Sodium bicarbonate w/o L- Glutamine	RSL008
LoSera™ Minimum Essential Medium Eagle	w/ Earle's salts, L-Alanyl-L-Glutamine, NEAA and Sodium bicarbonate	RSL008G
LoSera™ Nutrient Mixture F-10 Ham	w/ Sodium bicarbonate w/o L- Glutamine	RSL009
LoSera™ Nutrient Mixture F-12 Ham	w/ Sodium bicarbonate w/o L- Glutamine	RSL010
LoSera™ RPMI-1640	w/ Sodium bicarbonate w/o L- Glutamine	RSL011
LoSera™ RPMI-1640	w/ L-Alanyl-L-Glutamine and Sodium bicarbonate	RSL011G
LoSera™ RPMI-1640	w/ HEPES buffer and Sodium bicarbonate w/o L- Glutamine	RSL012

Related Products

L-Glutamine 200 mM L-Glutamine in 0.85% normal saline	TCL012
HiGlutaXL™ Supplement 200mM, 100X w/ L-Alanyl-L-Glutamine in 0.85% normal Saline	TCL030
Foetal Bovine Serum EU Approved Gamma irradiated	RM1112
Foetal Bovine Serum EU Approved Sterile filtered	RM10432

* Available in 1X500ML, 2X500ML and 6X500ML

* Customised Media available on request.



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