

Foetal Bovine Serum Replacer – Cell Growth Promoter (CGP)

Product Description

Cell Growth Promoter (CGP) has been developed by New Life Biologics LLC in the US. It is manufactured using components extracted and enhanced from adult bovine plasma in unique manufacturing processes. Cell Growth Promoter (CGP) is an ideal alternative to foetal bovine serum (FBS) with equal or improved performance.

Applications

CGP is intended for use in any application where FBS is currently being used and in new processes where FBS may be a candidate for use. CGP is available from LSG in both liquid and powder form. The product can be utilised as liquid in the same way as FBS or then added to media/reagents in a powdered form and reconstituted with the complete formulation.

Appearance

The product is available as a dry or crystalline non-sterile white powder for reconstitution or as a liquid solution that has been aseptically processed and tested for sterility and cell growth. Full information is supplied on the certificate of analysis.

Advantages

- Equivalent cell growth properties to standard FBS
- Significantly lower cost than FBS
- Stable pricing
- Available also as a powder form so no requirement for dry ice in shipping
- Liquid format can be used in an identical way to FBS
- Reduced batch-to-batch variability
- Viral and microbial inactivation processes incorporated in manufacturing.
- Readily integrated into media.
- Reduced environmental footprint with reduced packaging and waste.
- PCR BVD not detected.
- Cell growth performance demonstrated to be equivalent in all studies completed to date.

QUALITY - TRACEABILITY - INTEGRITY

Life Science Production

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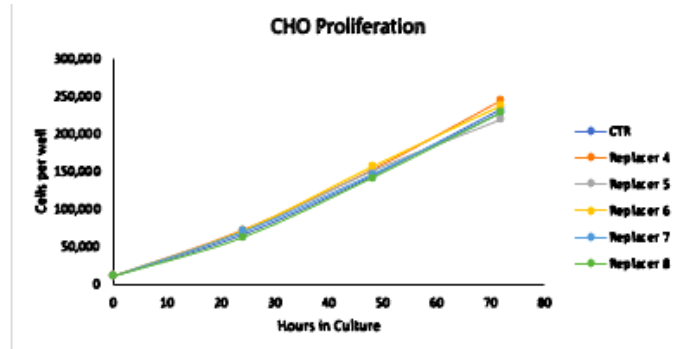
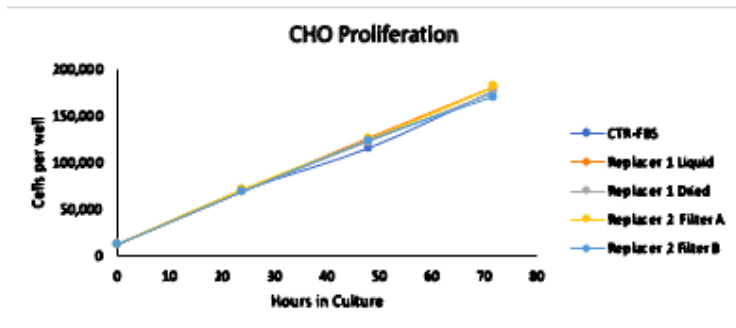
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Specification

Protein:	≥ 85%
Moisture:	≤ 10%
Ash:	≤ 15%
Country of Origin:	USA
BVD by PCR:	Not detected

Cell Data

Trials to date indicate that using CGP at equivalent levels as current serum supplementation produces acceptable to exceptional results against a range of cells and we have included an example below. Cell counts corresponding to the below charts are available upon request.



Storage and Shipping

Dry powder - ships at ambient temperatures, no requirement for dry ice shipments. Store at ambient temperatures.

Liquid product – ships frozen. Store at 2°C-8°C for short term usage (up to three months). For long term storage, store at -20°C

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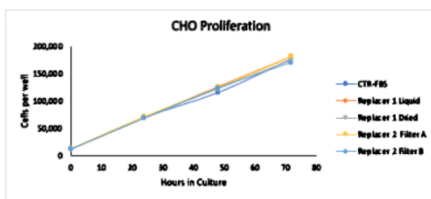
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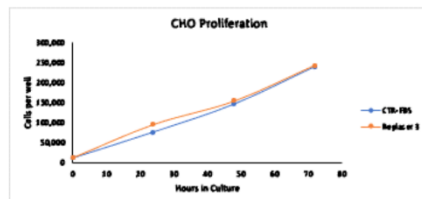
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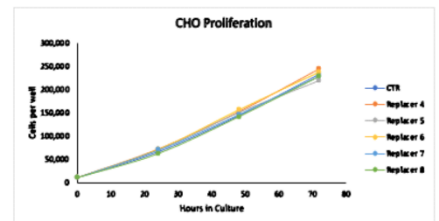
Biological data comparisons - CGP vs traditional liquid FBS for cell culture



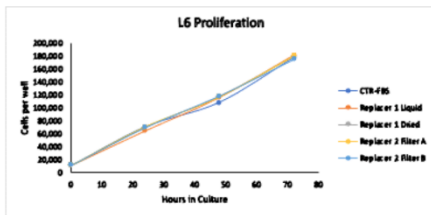
Hours in Culture	CTR-FBS	Replacer 1 Liquid	Replacer 1 Dried	Replacer 2 Filter A	Replacer 2 Filter B
0	11,400	11400	11400	11400	11400
24	70,000	68750	68750	71250	68750
48	116250	126250	122500	125000	123750
72	178750	181,250	175000	182500	171250



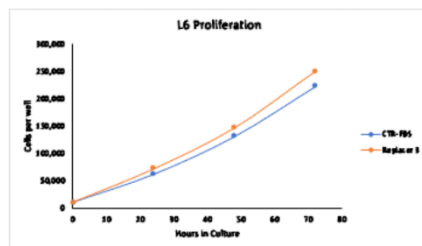
X-Values	CTR-FBS	Replacer 3
0	11,400	11400
24	76,250	95000
48	146250	153750
72	240000	243,750



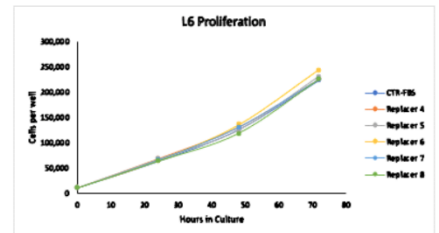
CTR - FBS	Replacer4	Replacer 5	Replacer 6	Replacer 7	Replacer 8
0	11,400	11400	11400	11400	11400
24	66,250	72500	71250	71250	70000
48	143750	152500	151250	156250	146250
72	232500	245,000	220000	237500	228750



Hours in culture	CTR-FBS	Replacer 1 Liquid	Replacer 1 Dried	Replacer 2 Filter A	Replacer 2 Filter B
0	11,400	11400	11400	11400	11400
24	71,250	65000	70,000	71250	70000
48	108,750	116250	117500	117500	118750
72	177,500	181250	178750	180000	175000



X-Values	CTR-FBS	Replacer 3
0	11,400	11400
24	62,500	72500
48	131,250	147500
72	222,500	251,250



CTR-FBS	Replacer 4	Replacer 5	Replacer 6	Replacer 7	Replacer 8
0	11,400	11400	11400	11400	11400
24	63,750	68750	67,500	65000	66250
48	126,250	131250	125000	135000	131250
72	223,750	226,250	231250	243750	226250

Product Presentation

Product Code	Product Description	Size
R-001CP-US	FBS Replacer -Cell Growth Promoter (CGP), lyophilised, US Origin	50 mL
R-001BP-US	FBS Replacer -Cell Growth Promoter (CGP), lyophilised, US Origin	100 mL
R-001AP-US	FBS Replacer -Cell Growth Promoter (CGP), lyophilised, US Origin	500 mL
R-001C-US	FBS Replacer -Cell Growth Promoter (CGP), liquid, US Origin	50 mL
R-001B-US	FBS Replacer -Cell Growth Promoter (CGP), liquid, US Origin	100 mL
R-001A-US	FBS Replacer -Cell Growth Promoter (CGP), liquid, US Origin	500mL

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Shelf life

Shelf life for both liquid and powdered product is 5 years from date of manufacture in original sealed packaging

Shelf life after reconstitution and filtration is 3 months at +4°C. Freeze into working aliquots for optimum use and long term storage.

For Cell Culture, further Manufacturing and Research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in therapeutic, clinical or *in vitro* procedures.

Support

Life Science Production is a division of Life Science Group Ltd.

Life Science Production is [ISIA Traceability Certified](#)

Life Science Group Ltd is an ISO 9001:2015 Certified company

To learn more, contact us:

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