



Technical Information

Products for Cell Biology

QBSF[®]-58 Serum-Free Medium (for Hematopoietic Stem Cells)

Catalog #:

160-109-061 100 ml (plastic)
160-109-101 500 ml (plastic)

pH: 7.0±0.2

Osmolality: 285±3% mOsm/Kg H₂O

Store at: 2 to 8°C

Shipped at: ambient temperature

Composition: Iscove's (IMDM) base with:
bovine serum albumin recombinant human insulin
human transferrin bovine cholesterol
sodium bicarbonate L-glutamine
25mM HEPES

Total Protein: 4.5±15 g/L

DESCRIPTION

Quality Biological's (QBI) QBSF[®]-58 is a proprietary serum-free medium designed to support liquid culture of human and murine bone marrow cells.

The total protein is 4.5±15 g/L.

APPLICATIONS

- Maintenance of murine hematopoietic stem cell culture
- Maintenance of human hematopoietic stem cell culture
- Supports CD34⁺ cell proliferation and differentiation
- General all-purpose serum-free medium for tissue culture

QUALITY CONTROL

General

The quality of a product is a combination of careful selection of raw materials, proper manufacturing procedures and diligent monitoring of each step. Quality Control is used to determine whether each step in the manufacturing process has been properly carried out and the finished product meets or exceeds the standards established for it.

Product Specific Testing

QBSF[®]-58 is routinely tested to verify it meets product specifications for the following parameters:

- pH
- Osmolality
- Microbiology
- Cytotoxicity
- Endotoxin
- Growth Performance

The test results of individual lots of QBSF[®]-58 are available upon request from Technical Services.

REFERENCES

1. Warren, M.K., Rose, W.L., Beall, L.D. & Cone, J. (1995) "CD34⁺ cell expansion and expression of lineage markers during liquid culture of human progenitor cells." *Stem Cells*, **13**, 167-174.
2. Warren, M.K., Rose, W.L., Cone, J., Rice, W.G. & Turpin, J.A. (1995) "Differential infection of CD34⁺ cell-derived dendritic cells and monocytes with lymphocyte-tropic and monocyte-tropic HIV-1 strains." *Blood*, **86**, 288a.
3. Brown, R.L., Xu, F.S., Smith, E. & Zanjani, E.D. (1994) *In vitro* serum-free expansion of sheep fetal hematopoietic cells for *in utero* transplantation." *Blood*, **84**, 731a.
4. Brown, R.L., Xu, F.S., Patchen, M. & Dusing, S. (1994) "Kinetics of long-term serum-free culture of murine bone marrow cells." *Blood*, **84**, 733a.

RELATED PRODUCTS

QBSF[®]-59

Serum-free medium for human hematopoietic stem cells

Catalog # 160-110-061 100 ml (plastic)
160-110-101 500 ml (plastic)

QBSF[®]-60

Serum-free medium for human hematopoietic stem/progenitor cells (CD34⁺)

Catalog # 160-204-061 100 ml (plastic)
160-204-101 500 ml (plastic)

All products sold by Quality Biological are intended for research use only. This product has not been approved for diagnostic or drug use.

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