

A close-up photograph of a sea slug, likely a nudibranch, with prominent yellow and white feathery appendages (parapodia) extending from its body. The slug's body is dark blue or black with orange and white markings. The background is a soft, out-of-focus underwater scene.

BIT 9500 SERUM SUBSTITUTE

BIT 9500 Serum Substitute

Serum is a highly variable non-standardized product requiring extensive testing to find the batch compatible with your cell types. The composition of serum-free medium on the other hand is well defined and ensures lot-to-lot consistency. BIT 9500 Serum Substitute replaces serum for the culture of stem cells and was developed for use in serum-free culture conditions with defined composition. BIT 9500 contains **B**ovine serum albumin (BSA), **I**nsulin and **T**ransferrin (**BIT**) in Iscove's IMDM. For BSA we use tested batches of EDQM certified Probumin™ BSA.

Species: human and mouse Cell Types: serum-free culturing of Stem Cells in general and Hematopoietic Progenitor, Pluripotent Stem Cells, Hybridomas, Peripheral Blood Mononuclear Cells (PBMC's), Mast Cell lines in particular amongst others.

Product Properties:

- pH is set at 7.3 ± 0.2 and osmolality at 300 ± 20 mOsm/kg/H₂O
- Store below -15°C
- Contains Bovine serum albumin, recombinant human insulin, human transferrin (iron-saturated), Iscove's IMDM
- Not intended for any human or animal diagnostic or therapeutic use

Instructions for use:

Thaw at room temperature (15–20°C) or overnight at 2–8°C. Swirl the bottle to mix its content. Store at 2–8°C for up to 1 month. Alternatively, aliquot and store at -20°C. After thawing the aliquots, do not refreeze. Use BIT 9500 at a final concentration of 20% in your preferred medium.

Cat. No	Description	Size
5-18S02-H	BIT 9500 Serum Substitute	100 ml

References

Palii CG et al. (2019) Single-Cell Proteomics Reveal that Quantitative Changes in Co-expressed Lineage-Specific Transcription Factors Determine Cell Fate. *Cell Stem Cell* 2;24(5):812-820

Miyawaki K et al. (2017) Identification of unipotent megakaryocyte progenitors in human hematopoiesis. *Blood* 22;129(25):3332-3343

Gilpin SE et al. (2014) Enhanced lung epithelial specification of human induced pluripotent stem cells on decellularized lung matrix. *The Annals of Thoracic Surgery* 98(5):1721-1729

Gambone JE et al. (2011) The c-Myb target gene neuromedin U functions as a novel cofactor during the early stages of erythropoiesis. *Blood* 26;117(21):5733-5743

Singbrant S et al. (2011) Erythropoietin couples erythropoiesis, B-lymphopoiesis, and bone homeostasis within the bone marrow microenvironment. *Blood* 26;117(21):5631-5642

About BioConcept

Based in Basel, BioConcept is a primary manufacturer of specialty cell culture media and buffers for the life sciences and biopharmaceutical industry. BioConcept has developed a proprietary portfolio of cell culture media for a variety of cell types (CHO, BHK, stem cells, Hybridoma, Insect cells etc) that are used by hundreds of customers. In addition to its proprietary media formulations, BioConcept manufactures custom media formulations for its biopharmaceutical customers. BioConcept's media manufacturing facilities include segregated ACF/non-ACF liquid media facilities of up to 5,000L capacity as well as powder media milling and blending facility of up to 800 kg/batch all of which are ISO certified and GMP compliant. The State-of-the-Art facilities use WFI (Water for Injection) and automated robotics handling and filling systems for quality product production and quick turn around times.



Powder Mill



Automated Bottle Handling



Automated Media Filling