

Datasheet

Panexin BMM**Serum Replacement for Cultivation of Mouse Bone Marrow Macrophages (BMM)**

Product	Description	Catalogue-No.	Size
Panexin BMM	Serum replacement for the cultivation of bone marrow macrophages from mouse	P04-951SA2M P04-951SA2	10 ml 100 ml

Product description

Panexin BMM is a fully defined serum replacement for the cultivation of macrophages from mouse bone marrow (murine bone marrow derived macrophages, BMM) under serum- free conditions. The ready-to-use sterile solution in a final concentration of 5 % is added to the basal medium RPMI 1640, supplemented with 50 µM Mercaptoethanol and 2 ng/ml GM-CSF mur. rec.

Storage conditions

Storage: -20°C
Stability: 2 years from date of production
Size: 10 ml, 100 ml, other sizes on request

Composition

Panexin BMM contains purified proteins (<3 % w/v), lipids, salts, amino acids, trace elements, attachment factors, hormones and animal-derived components (<12 % w/v). It contains no growth factors, undefined hydrolysates or lysates (e. g. Peptones).

Special advantages

Panexin BMM has been developed for the generation of macrophages from mouse bone marrow under serum-free conditions.

The results will be more comparable, as undefined components - like in serum-containing cultures - are eliminated. In Panexin BMM matured macrophages will show excellent attachment capabilities. This achieves standardized conditions and reproducible results.

Instructions for use

Panexin BMM is added to the basal medium RPMI 1640 in a final concentration of 5% and has to be supplemented with 50 µM Mercaptoethanol and 2 ng/ml GM-CSF murine rec.

For example: 475 ml RPMI 1640
25 ml Panexin BMM
1 µg GM-CSF
1.75 µl Mercaptoethanol

After the isolation of the bone marrow from a mouse, a single cell suspension will be achieved by frequent pipetting. Centrifuge the cells at 200g for 10 minutes. Resuspend the isolated cells in serum-free medium and seed the cells in three T75 cell culture flasks with 20 ml medium. The incubation is done at 37°C and 5 % CO₂. Feeding of the cells should be done on day 5 and 7 by an exchange of 10 ml of medium with fresh medium. After 10 days, the cells can be harvested.

Reference

Kristin Eske, Generation of murine bone marrow derived macrophages in a standardized serum-free cell culture system. Journal of Immunological Methods 342 (2009) 13–19.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

FOR RESEARCH USE ONLY! Not approved for human or animal diagnostic or therapeutic procedures.