



Miltenyi Biotec



MACS® GMP Cell Culture Bags

Let your ideas grow

The GMP-compliant cell culture bags support your research into cellular therapies. Bags are available for small- and large-scale cultures.

- **Functionally closed system**
- **Gas permeable**
- **Transparent for microscopy**
- **Endotoxin tested**

► miltenyibiotec.com/gmp

MACS® GMP Cell Culture Bag

Cell-based therapies are an emerging treatment option in a variety of diseases. For the development of applications involving cellular therapies, strict procedure standardizations according to GMP guidelines are mandatory.

Our MACS GMP Cell Culture Bags have been developed as valuable tools for GMP-compliant cell cultivation in functionally closed systems.

- Gas permeable
- Transparent for microscopy
- Sterile and tested for endotoxins
- Individually packed
- Applicable for *in vitro* cultivation and expansion of cells from heterogeneous hematologic cell populations (e.g. generation of monocyte-derived dendritic cells, expansion of antigen-specific T cells)

MACS GMP Cell Differentiation Bag

- Available in five sizes
- One culture chamber

MACS GMP Cell Expansion Bag

- Unique compartmentalized culture chamber – easily opened seals
- Incremental culture volume – no need to change culture vessel



Figure 1: MACS GMP Cell Expansion Bag – As culture volume increases, seals can easily be opened to give larger culture volumes

Product	Content	Capacity	Minimum fill volume	Order no.
MACS GMP Cell Differentiation Bag – 100 ¹	5 bags	100 mL	20 mL	170-076-400
MACS GMP Cell Differentiation Bag – 250 ¹	5 bags	250 mL	30 mL	170-076-401
MACS GMP Cell Differentiation Bag – 500 ¹	5 bags	500 mL	50 mL	170-076-402
MACS GMP Cell Differentiation Bag – 1000 ¹	5 bags	1000 mL	120 mL	170-076-404
MACS GMP Cell Differentiation Bag – 3000 ¹	5 bags	3000 mL	220 mL	170-076-405
MACS GMP Cell Expansion Bag ¹	5 bags	up to 100 mL	8/16/20 mL	170-076-403

¹MACS GMP Products are for research use and *ex vivo* cell culture processing only, and are not intended for human *in vivo* applications. For regulatory status in the USA, please contact your local representative. For availability in your country please contact your local representative. MACS GMP Products are manufactured and tested under a quality system certified to ISO 13485 and are in compliance with relevant GMP guidelines. They are designed following the recommendations of USP <1043> on ancillary materials.



Miltenyi Biotec B.V. & Co. KG | Friedrich-Ebert-Straße 68 | 51429 Bergisch Gladbach | Germany | Phone +49 2204 8306-0 | Fax +49 2204 85197
macsde@miltenyi.com | www.miltenyibiotec.com

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