



Miltenyi Biotec

## StemMACS™ HSC-CFU Media, human

Need to assess HSC differentiation potential? We have the media!

Colony-forming unit (CFU) assays help you to test the ability of hematopoietic progenitors to proliferate and differentiate into colonies in semi-solid media in response to cytokine stimulation. Choose StemMACS™ HSC-CFU Media – quality media for superior cells.

- Standardized semi-solid media
- Easy evaluation of HSC differentiation potential
- Reliable and quality assured, no lot-to-lot variation

► [miltenyibiotec.com](http://miltenyibiotec.com)



## Choose a proven culture media for your CFU assay

StemMACS™ HSC-CFU Media are semi-solid, ready-to-use media that are based on methylcellulose in Iscove's MDM (IMDM) and supplemented with fetal bovine serum (FBS) and cytokines that mimic the effect of stromal cells to provide optimal growth conditions.

	HSC-CFU complete with Epo	HSC-CFU complete w/o Epo	HSC-CFU lite with Epo
<b>The formulation supports growth of:</b>			
CFU-G, CFU-M, CFU-GM	yes	yes	yes
BFU-E, CFU-E, CFU-GEMM	yes	no	yes
<b>Components</b>			
Methylcellulose in Iscove's MDM (IMDM)	1%	1%	1%
Fetal bovine serum (FBS)	30%	30%	30%
Bovine serum albumin (BSA)	1%	1%	1%
L-glutamine	2 mM	2 mM	2 mM
2-mercaptoethanol	0.1 nM	0.1 nM	0.1 nM
Stem cell factor (SCF)	50 ng/mL	50 ng/mL	50 ng/mL
GM-CSF	20 ng/mL	20 ng/mL	10 ng/mL
G-CSF	20 ng/mL	20 ng/mL	-
IL-3	20 ng/mL	20 ng/mL	10 ng/mL
IL-6	20 ng/mL	20 ng/mL	-
Erythropoietin (Epo)	3 U/mL	-	3 U/mL

**Table 1:** StemMACS HSC-CFU Media are specially formulated to provide optimal growth conditions for specific colony types.

## Get reliable performance at an exceptional value

StemMACS HSC-CFU Media are for use with cells from a variety of sources\*. Choose StemMACS HSC-CFU Media for numerous applications, including:

- cryopreservation control
- testing of donor samples
- cytotoxicity testing
- research on hematopoietic precursors

\*Cord blood, peripheral blood, enriched CD34+ cells, bone marrow, fetal liver cells, ES/iPS cell-derived hematopoietic precursors.



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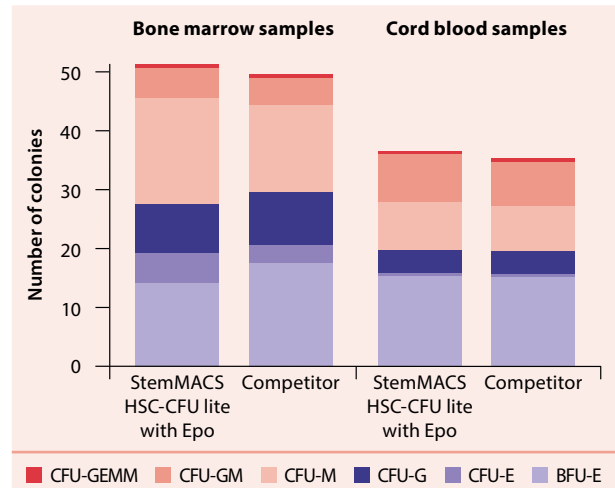
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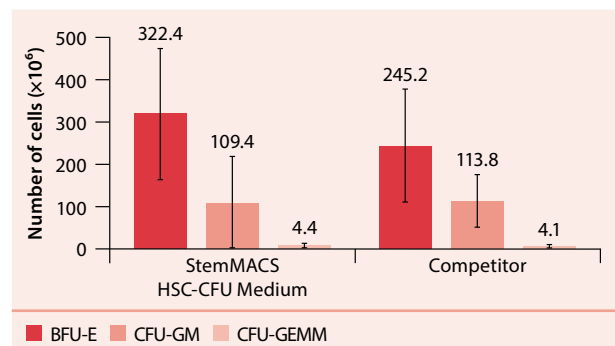
## See the comparison data

When compared with other commercially available products, StemMACS HSC-CFU Media consistently show performance levels that are equivalent or better than competitor products across multiple sample types.

## StemMACS™ HSC-CFU Media vs. competitor



**Figure 1:** In bone marrow and cord blood samples, StemMACS HSC-CFU lite with Epo shows similar colony distribution and performance when compared with another commercially available medium.



**Figure 2:** In comparison to another commercially available media, StemMACS HSC-CFU lite with Epo shows similar performance in cord blood.

Product	Order no.
StemMACS HSC-CFU complete with Epo	100 mL 130-091-280
StemMACS HSC-CFU complete w/o Epo	100 mL 130-091-277
StemMACS HSC-CFU lite with Epo	100 mL 130-091-281
StemMACS HSC Expansion Media XF	500 mL 130-100-463
StemMACS HSC Expansion Media XF	100 mL 130-100-473
StemMACS HSC Expansion Cocktail	100 mL 130-100-843