TRINOVA BIOCHEM

Availability of Assays for Different Hematopoietic Populations from Preferred Cell Systems and other suppliers

Cell Type	Cell Population CFC / Non-CFC Equivalent Designation	Growth Factor Cocktail used for Stimulation	Methylcellulose CFC Reagents and Kits			Non-Methylcellulose, Proliferation Assays
			Traditional 35mm Plate Assay Format	4-Well, 35mm Plate Format	96-Well Plate Format	96- and/or 384-Well Plate Format
For any cell population		No cocktail included. User adds their own.	ColonyGro, MethoCult, ColonyGel, MeC Media, HSC-CFU	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
STEM CELL POPULATIONS	SC-HPP-X	3, 6, SCF, Flt3-L	NA	NA	NA	HALO, HemoFLUOR, HemoLIGHT
	SC-HPP-XT	3, 6, SCF, Flt3-L, 2, CD3, CD28	NA	NA	NA	HALO, HemoFLUOR, HemoLIGHT
	CFC-HPP-SP 1 (SC-HPP 1)	3, 6, SCF, Flt3-L, TPO	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	SC-HPP-1T	2, 3, 6, SCF, Flt3-L, TPO, CD3, CD28	NA	NA	NA	HALO, HemoFLUOR, HemoLIGHT
	CFC-HPP-SP 2 (SC-HPP 2)	EPO, GM, 2, 3, 6, 7, SCF, Flt3-L, TPO	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	CFC-GMM 1 (SC-GEMM 1)	EPO, GM, 3, 6, SCF, Flt3-L, TPO	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	CFC-GEMM 2 (SC-GEMM 2)	EPO, GM, 3, 6, SCF, TPO	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	CFC-GEMM 3 (SC-GEMM 3)	EPO, GM, G, 3, 6, SCF + TPO	ColonyGro, MethoCult, ColonyGel, MeC Media, HSC-CFU (only ColonyGro contains TPO)	CAMEO-4	NA	HALO
	CFC-GEM 1 (SC-GEM 1)	EPO, GM, 3, 6, SCF	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	CFC-GEM 2 (SC-GEM 2)	EPO, GM, 3, SCF	ColonyGro, MethoCult, ColonyGel, MeC Media, HSC-CFU	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	CFC-GEM 3 (SC-GEM 3)	EPO, GM, G, 3, SCF	ColonyGro, MethoCult, HSC-CFU	CAMEO-4	NA	HALO
PROGENITOR CELL POPULATIONS	BFU-E 1 (P-BFU 1)	EPO, 3, SCF	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	BFU-E 2 (P-BFU 2)	EPO alone (high dose)	ColonyGro, MethoCult	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	GM-CFC 1 (P-GM 1)	GM, 3, SCF	ColonyGro, MethoCult, ColonyGel, MeC Media	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	GM-CFC 2 (P-GM 2)	GM, G, 3, SCF	ColonyGro, MethoCult	CAMEO-4	NA	HALO
	GM-CFC 3 (P-GM 3)	GM alone	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	Mk-CFC 1 (P-Mk 1)	TPO, 3, SCF	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	Mk-CFC 2 (P-Mk 2)	TPO alone	ColonyGro	CAMEO-4	NA	NA
	T-CFC (P-Tcell)	2 alone	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
	B-CFC (P-Bcell)	7 alone	ColonyGro	CAMEO-4	CAMEO-96	HALO, HALO-RT, HemoFLUOR, HemoLIGHT
PRECURSOR CELL POPULATIONS	CFU-E	EPO alone (low dose)	ColonyGro, MethoCult	CAMEO-4	NA	NA
	G-CFC	G alone	ColonyGro	CAMEO-4	NA	NA
	M-CFC	M alone	ColonyGro	CAMEO-4	NA	NA

Suppliers:
HemoGenix: ColonyGro, CAME4, CAMEO-96, HALO, HALO-Real Time, HemoFLUOR, HemoLIGHT
Stem Cell Technologies: MethoCult
ReachBio: ColonyGel
R & D Systems: Methylcellulose Media
Miltenyi Biotech: HSC-CFU

Abbreviations:
SC = Stem cell. P = Progenitor cell.
HPP-SP = High proliferative potential-stem and progenitor
GEMM = Granulocyte, erythroid, macrophage, megakaryocyte
GEM = Granulocyte, erythroid, macrophage
BFU-E = Burst-forming unit erythroid
CFU-E = Colony-forming unit - erythroid
CFC = Colony-forming cell
Mk = Megakaryocyte
T = T-cell
B = B-cell
G = Granulocyte
M = Macrophage
MeC = Methylcellulose
EPO = Erythropoietin
GM = Granulocyte-macrophage colony-stimulating factor (GM-CSF)
G = Granulocyte colony-stimulating factor (G-CSF)
M = Macrophage colony-stimulating factor (M-CSF)
2 = interleukin2 (IL-2)
3 = Interleukin-3 (IL-3)
6 = Interleukin-6
7 = Interleukin-7 (IL-7)
SCF = Stem cell factor
TPO = Thrombopoietin
SF = Serum-free
NA = Not available

Availability is shown for human cells.
ColonyGro, CAMEO-4, CAMEO-96, HALO, HALO-Real Time, HemoFLUOR and HemoLIGHT are available for up to 8 different species:
- Human
- Non-human primate
- Horse
- Pig
- Sheep
- Dog
- Rat
- Mouse

Serum-free assays are available for human, primate and mouse assays for:
- HALO
- HALO-Real Time
- HemoFLUOR
- HemoLIGHT
All assays for all species are otherwise available with a low serum formulation

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