造血系細胞

ヒト MethoCult 組成

ヒト MethoCult	商品コード	組成							
		MC	FBS	BSA	Insulin + Transferrin	2-ME	成長因子		
							EPO	SCF,GM-CSF,IL-3	その他
H4034 Optimum	ST-04034V ST-04044V	●	●	●			●	●	G-CSF
	ST-04044 ST-04064	●	●	●		●			
H4035 Optimum without EPO	ST-04035 ST-04045	●	●	●		●		●	G-CSF
H4434 Classic	ST-04434 ST-04444 ST-04464	●	●	●		●	●	●	
H4534 Classic without EPO	ST-04534 ST-04544 ST-04464	●	●	●		●		●	
H4435 Enriched	ST-04435 ST-04445	●	●	●		●	●	●	IL-6,G-CSF
H4535 Enriched without EPO	ST-04535 ST-04545	●	●	●		●		●	IL-6,G-CSF
H4436	ST-04436	●		●	●	●	●	●	IL-6,G-CSF
H4536	ST-04536	●		●	●	●		●	IL-6,G-CSF
H4431	ST-04431	●	●	●		●	●		Agar-LCM
H4531	ST-04531	●	●	●		●			Agar-LCM
H4100	ST-04100	●							
H4236	ST-04236	●		●	●	●			
H4330	ST-04330	●	●	●		●	●		
H4230	ST-04230	●	●	●		●			
H4436	ST-04436	●		●	●	●	●		

MC=Methylcellulose; 2-ME=Mercaptoethanol; Agar-LCM=Agar-Leukocyte Conditioned Medium

ヒト MethoCult CFC アッセイに使用する細胞量（35mm ディッシュ）

細胞の種類	細胞数（35mm）
Bone Marrow - Ammonium Chloride Treated	2×10^4 - 1×10^5
Bone Marrow - Mononuclear Cells*	1 - 5×10^4
Cord Blood - Mononuclear Cells*	5×10^3 - 2×10^4
Normal Peripheral Blood - Mononuclear Cells*	1 - 2×10^5
Mobilized Peripheral Blood	1 - 5×10^4
Progenitor (e.g. $CD34^+$) Cell Enriched (BM,CB,MPB)	0.5 - 2×10^3
ES/iPS Cell derivered Hematopoietic Progenitor Cells	2×10^3 - 2×10^4

*Mononuclear cells (MNCs) isolated by density-based cell separation (light density, 1.077 g/mL)

ヒト正常細胞における標準的な Progenitor 数

細胞の種類	Progenitor の種類			
	CFU-E	BFU-E	CFU-GM	CFU-GEMM
Bone Marrow - Ammonium Chloride Treated per 10^5 cells (n=50)	31(1-78)	115(1-251)	100(30-170)	5(1-15)
Bone Marrow - Mononuclear Cells* per 10^5 cells (n=17)	188(1-506)	175(1-477)	408(1-990)	10(1-30)
Bone Marrow - $CD34^+$ Cell Enriched per 10^3 cells (n=15)	30(1-59)	34(1-74)	54(7-101)	2(1-5)
Cord Blood - Mononuclear Cells* per 10^5 cells (n=16)	9(1-48)	104(1-310)	115(1-303)	25(1-59)
Normal Peripheral Blood - Mononuclear Cells* per 10^5 cells (n=30)	2(1-10)	30(1-62)	9(1-18)	2(1-5)
Mobilized Peripheral Blood per 10^5 cells (n=19)	8(1-27)	121(1-257)	111(1-257)	23(1-67)

CFC numbers were determined using MethoCult H4434 Classic. Values are expressed as means; the range is defined by means ± 2 standard deviations.
*Mononuclear cells (MNCs) isolated by density-based cell separation (light density, 1.077 g/mL)