

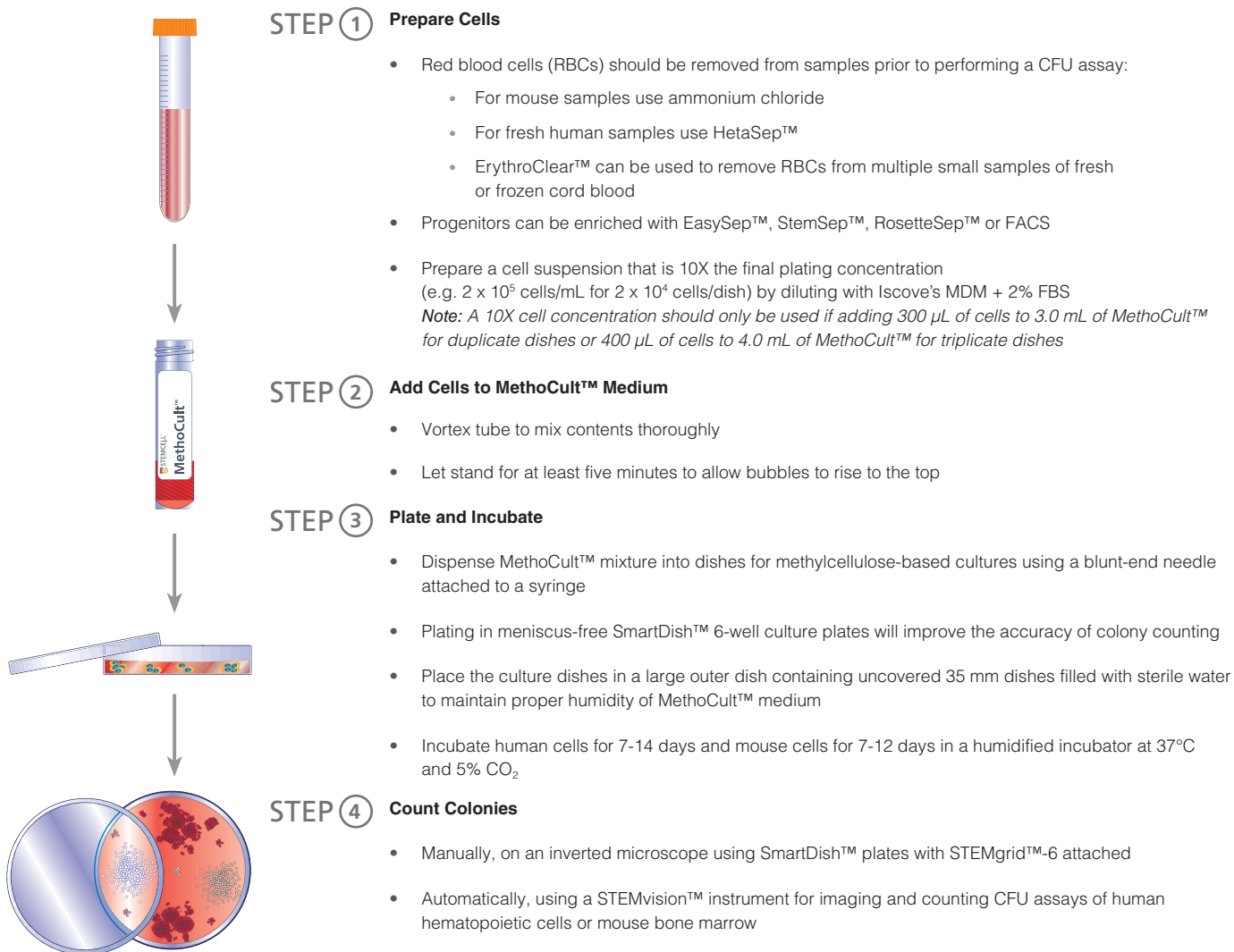
MethoCult™ Media

for Performing Hematopoietic Colony-Forming Unit (CFU) Assays

The CFU Assay

The colony-forming cell (CFC) or colony-forming unit (CFU) assay is an in vitro functional assay for enumerating multipotential and lineage-committed hematopoietic progenitor cells (HPCs) in bone marrow, blood and other hematopoietic tissues. The CFU assay allows researchers to enumerate erythroid (CFU-E and BFU-E), granulocyte/macrophage (CFU-GM, CFU-G and CFU-M) and multilineage (CFU-GEMM) progenitor cells, as cells of different lineages and maturity produce colonies that differ in size, morphology and cellular composition. Each colony is derived from a single progenitor cell or CFU.

MethoCult™ is a line of methylcellulose-based media formulated to promote the optimal growth and differentiation of HPCs from various species (humans, mice and rats). MethoCult™ media is a key component of standardized hematopoietic CFU assays. Pair MethoCult™ with SmartDish™ meniscus-free cultureware and STEMgrid™-6 for more accurate manual colony counting or perform automated counts of CFU assays in SmartDish™ cultureware with the STEMvision™ instrument. For those interested in improving their skills when performing the CFU assay, proficiency testing programs, quality control kits and training courses are available.



CFU-GEMM: colony-forming unit - granulocyte, erythrocyte, macrophage, megakaryocyte; BFU-E: burst-forming unit - erythroid; CFU-G: colony-forming unit - granulocyte; CFU-M: colony-forming unit - macrophage; CFU-GM: colony-forming unit - granulocyte, macrophage.



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STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.

MethoCult™ Media

for Performing Hematopoietic Colony-Forming Unit (CFU) Assays

STEP 1 - CELL SOURCING & ISOLATION	
Primary Cells	Fresh or frozen human blood and bone marrow
Ammonium Chloride Solution*	07800/07850
Lymphoprep™*	07861
HetaSep™*	07806/07906
ErythroClear™*	01738/01739
EasySep™*	Immunomagnetic positive selection or enrichment
RosetteSep™*	Immunodensity enrichment
Iscove's MDM + 2% FBS	07700
MethoCult™ Cell Wash Medium**	87700
STEP 2 - CULTURE OF HPCs	
MethoCult™ Express	04437/04447**
MethoCult™ Optimum	04034/04044**
MethoCult™ Optimum without EPO	04035/04045**
MethoCult™ Enriched	04435/04445**
MethoCult™ Enriched without EPO	04535/04545**
MethoCult™ GF M3434	03434/03444
MethoCult™ GF M3534	03534
MethoCult™ SF M3436	03436
Syringes	28230/28240
Blunt-End Needles	28110/28120
SmartDish™ 6-Well Plates	27301/27302
35 mm Culture Dishes	27100/27150
Large Outer Dishes	27140/27141
STEP 3 - ANALYSIS	
STEMvision™ Instrument	22000
STEMgrid™-6 Detachable Grid	27000
Gridded Scoring Dishes	27500
Hematopoietic Colony Compass App	App Store or Google Play

EPO: Erythropoietin

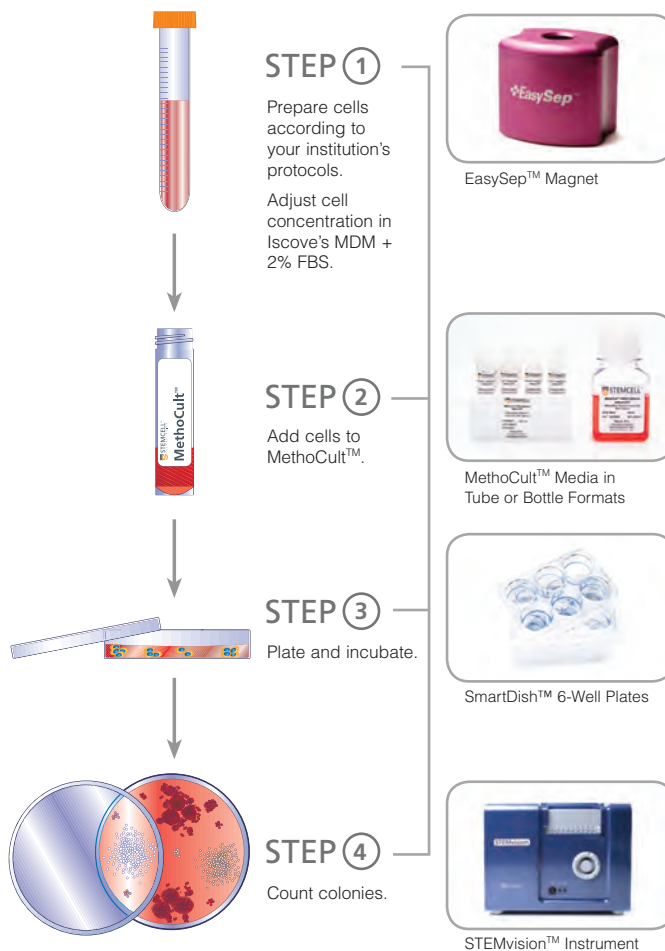
* Optional. Use of these reagents is dependent on institution's protocol for processing samples

** CE marked formulations also available for in vitro diagnostic use in the European Union (EU)

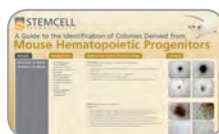
Training Resources for the Hematopoietic CFU Assay

PRODUCT	CATALOG #
Human Bone Marrow Proficiency Testing Program	00602
Frozen Cord Blood Proficiency Testing Program	00608
Human Bone Marrow Quality Control Kit	00650
Human Cord Blood Quality Control Kit	00651
Hematopoietic Progenitor Assay Training Course	00215

Visit www.stemcell.com/education for more information.



Human Hematopoietic Progenitor Wallchart
Request a free copy at
www.stemcell.com/humanCFUwallchart



Mouse Hematopoietic Progenitor Wallchart
Request a free copy at
www.stemcell.com/mouseCFUwallchart

For detailed instructions, refer to our Technical Manuals for Human (Catalog #28404) and Mouse (Catalog #28405) Colony-Forming Unit (CFU) Assays Using MethoCult™