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Ayushmaan Bhava

CORD BLOOD HEMATOPOIETIC COLONY FORMING UNIT ASSAY REPORT*

Name Of Client : B/O RUCHA PATEL
CRM No : 200000900432
Sample Collected On : 15-09-2020 11:36
Lab ID No : 359899
Sample Received On : 16-09-2020 14:50
Date Of Report : 04-10-2020 11:30
Initial Report ☑ Duplicate Report ☐ Revised Report ☐ Version No 1

PARAMETER	RESULT	UNIT	SPECIFICATION	Image
TOTAL CFU *By Culture And Microscopy*	76.84	CFU/10^5 Cells	For Information	
CFU-GM	31.64	CFU/10^5 Cells	For Information	
CFU-GEMM	0.00	CFU/10^5 Cells	For Information	
BFU-E	45.20	CFU/10^5 Cells	For Information	

* Note: Parameter Not Under NABL Scope

This is electronically generated report.

DR. CHIRAYU PADHIAR, M.B.B.S..: DCP (G25442)
Senior Medical Director

FREQUENTLY ASKED QUESTIONS

CFU assay is used to measure not only the number but also the quality of stem cells in stored cord blood, which is an indication of the number of cells that remain viable enough to proliferate and differentiate into various mature cells found in blood. BFU-E, CFU-GM & CFU- GEMM are the types of reportable colonies from cord blood.

BFU-E (Burst forming unit-erythroid): These are primitive erythroid progenitors which give rise to red blood cells. Also that have high proliferative capacity.

CFU-GM (Colony forming unit-granulocyte, macrophage): Progenitors that give rise to colonies containing a heterogeneous population of macrophages and granulocytes.

CFU-GEMM (Colony forming unit-granulocyte, erythrocyte, macrophage, megakaryocyte): Multi-lineage progenitors that give rise to erythroid, granulocyte, macrophage and megakaryocyte lineages, as the name indicates.

When the test parameters are reported as Not Applicable, it denotes the particular colony forming unit did not exhibit during the culture. This may not have impact on sample quality and storage. Reason for No growth as follows.

1. Colony forming unit was not present in the fraction of cord blood which was put in culture such a condition is termed as False Negative.
2. One or more microbes in the cord blood might be interfering the growth of CFU.

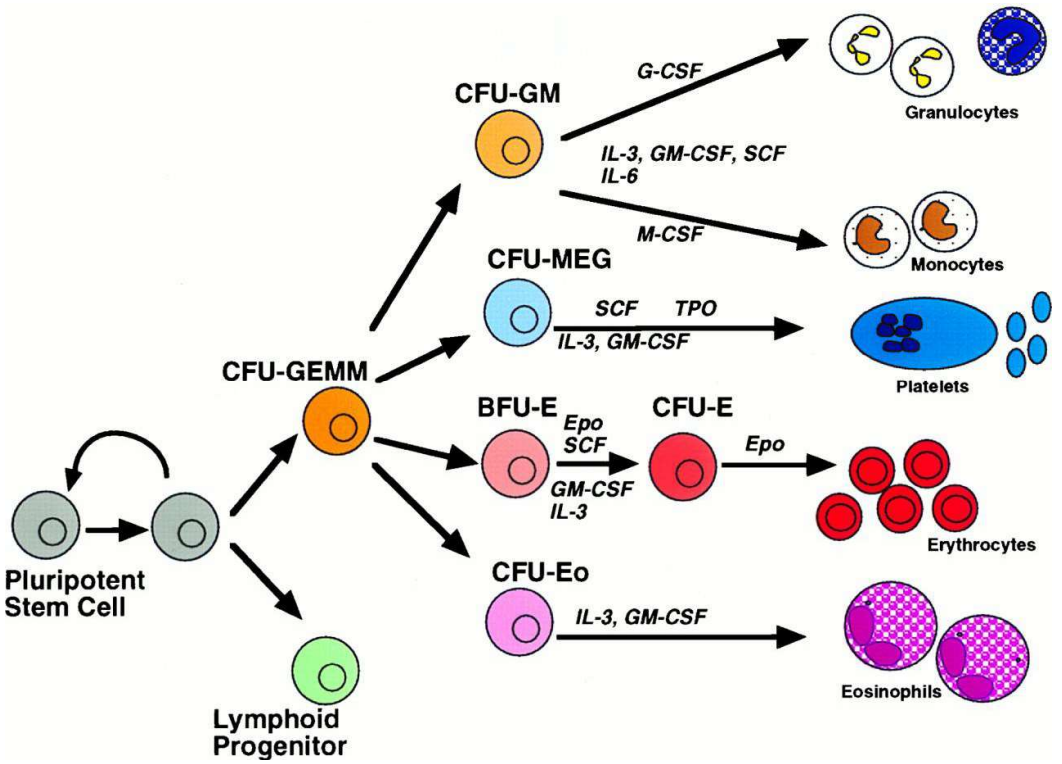

Image Ref: Control of hematopoietic differentiation: Lack of specificity in signaling by cytokine receptors. PNAS June 9, 1998 vol. 95 no. 12 6573-6575.