



## STEM CELL LABORATORY (STCL)



**DOCUMENT NUMBER:** STCL-PROC-022 FRM1

**DOCUMENT TITLE:**

Stem Cell Laboratory, STCL, Clinical  
Hematopoietic Progenitor Cell Assay (HPCA) Worksheet

**DOCUMENT NOTES:**

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### Document Information

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### Control Information

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**STCL-PROC-022 (FRM 1)**  
**Stem Cell Laboratory (STCL) Clinical**  
**Hematopoietic Progenitor Cell Assay (HPCA) Worksheet**

Recipient Name: \_\_\_\_\_

Recipient History #: \_\_\_\_\_

Donor name: \_\_\_\_\_

Donor History #: \_\_\_\_\_

Date/Time received: \_\_\_\_\_

Date/Time Collected: \_\_\_\_\_

(Check ONE): ☐ Fresh HPCA =  $2 \times 10^5$  cells/ml (Plating  $1 \times 10^4$  cells/well) ☐ Frozen HPCA =  $4 \times 10^5$  cells (Plating  $2 \times 10^4$  cells/well)

Date	Source (CBU,PB,PSC, BM, Other)	Test Requested (HPB, HPA, etc)	Accession #	Cell Count $\times 10^5$ /ml	Volume needed for test	Tech Initials	Verified by (Tech Initials)

**CALCULATIONS**

Source (CBU,PB,PSC,BM,Other)	Raw Cell Count $\times 10^6$ /ml	Viability %	Total Specimen Volume Counted	Volume of Sample used to QS to 1.0 ml	Tech Initials

**RESULTS**

Source	GM	GEMM	BFUE	Read by: (Tech Initials)	Date

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## INSTRUCTIONS

Field	Requirements
Recipient Name	Enter recipient's name
Recipient History #	Enter recipient's medical history number of patient/donor
Donor Name	Enter donor's name
Donor History #	Enter donor history #
Date/Time received	Enter date and time unit received into laboratory
Date/Time collected	Enter date and time unit was collected
Check (ONE) Fresh HPCA or Frozen HPCA	Fresh products require $2 \times 10^5$ cells/ml (in order to plate $1 \times 10^4$ cells/well; Frozen product require $4 \times 10^5$ cells/ml (in order to plate $2 \times 10^4$ cells/well).
Date	Enter the date the specimen was plated.
Source	Enter cell source being tested ( i.e. cord blood (CBU), bone marrow (BM), peripheral blood (PB). etc.
Test	Enter test being performed on unit (ie. HPB, HPA)
Accession #	Enter accession number generated by Pathnet (when ordered)
Cell count/ml	Cell count of product ( $\times 10^5$ cells per ml)
Volume needed for test	Volume of sample needed to plate $2 \times 10^5$ cells or $4 \times 10^5$ depending on whether the sample is fresh or thawed.
Tech Initials	Initials of technologist entering information on worksheet
Verified by (Tech Initials)	Initials of lab tech verifying the calculations and the initials of the tech entering the results in Pathnet
Source	Enter type of specimen collected (i.e. cord blood unit (CBU), bone marrow (BM), peripheral blood (PB)
Raw cell count	Cell count of product ( $\times 10^6$ cells / ml)
Viability	Enter percent viability by trypan blue (# of live cells)
Total Specimen Volume counted	Total volume of sample counted
Volume of sample used QS to 1.0 ml	Volume used to set up HPC assay
Tech Initials	Initials of tech performing calculations
Results	<p>Record the sample source and the number of GM, GEMM and BFUE colonies there were counted on the plate. Results for each colony type will be added together and an average obtained. Enter the tech initials and date the plate was read / counted.</p> <p><b>RESULTS:</b>  <b>(Fresh)</b> – Multiply the average colony count by 10 and then enter the result for each colony type in Pathnet.  <b>(Frozen / Thawed)</b> – Multiply the average colony count by 10 and then divide by 2; Enter the result for each colony type in Pathnet.</p>
Comments	Enter any comments associated with this clinical specimen.

**Signature Manifest****Document Number:** STCL-PROC-022 FRM1**Revision:** 03**Title:** Stem Cell Laboratory, STCL, Clinical Hematopoietic Progenitor Cell Assay (HPCA) Worksheet

All dates and times are in Eastern Time.

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