

Side by Side Comparison

Original Report – Page 2

Cat#	Vendor	Antibody	Fluor	ul/test
11-0909-41	ebioscience	CD 90	FITC	2.5ul
11-4714-41	ebioscience	IgG	FITC	2.5ul
12-1057-41	ebioscience	CD105	PE	2.5ul
12-4714-41	ebioscience	IgG	PE	5ul
25-9459-41	ebioscience	CD45	PECY7	2.5ul
25-4714-41	ebioscience	IgG	PECY7	2.5ul
17-0739-41	ebioscience	CD73	APC	2.5ul
17-4714-41	ebioscience	IgG	APC	0.625
		viability	DAPI	5ul

Reagents

Wash Buffer- 2.5%BSA in PBS (Core)

ASSAY RESULTS

Fresh Sample ID

Excluding RBC contamination, cellularity consisted of 9.7×10^5 viable cells per mL. Viability based on exclusion of DAPI equals 67.6%. Cellular phenotype consisted of:
 CD90= 59.2%
 CD105= 55.4%
 CD73= 86.7%
 CD45= 3.19%

Frozen Sample ID

Excluding RBC contamination, cellularity consisted of 7.8×10^5 viable cells per mL. Viability based on exclusion of DAPI equals 43.1%. Cellular phenotype consisted of:
 CD90= 28.0%
 CD105= 35.1%
 CD73= 84.4%
 CD45= 4.06%

James Marvin
 Director, Flow Cytometry SRL

Altered Report – Page 2

Cat#	Vendor	Antibody	Fluor	ul/test
11-0909-41	ebioscience	CD 90	FITC	2.5ul
11-4714-41	ebioscience	IgG	FITC	2.5ul
12-1057-41	ebioscience	CD105	PE	2.5ul
12-4714-41	ebioscience	IgG	PE	5ul
25-9459-41	ebioscience	CD45	PECY7	2.5ul
25-4714-41	ebioscience	IgG	PECY7	2.5ul
17-0739-41	ebioscience	CD73	APC	2.5ul
17-4714-41	ebioscience	IgG	APC	0.625
		viability	DAPI	5ul

Reagents

Wash Buffer- 2.5%BSA in PBS (Core)

ASSAY RESULTS

Fresh Sample ID

Excluding RBC contamination, cellularity consisted of 9.7×10^5 viable cells per mL. Viability based on exclusion of DAPI equals 67.6%. Cellular phenotype consisted of:
 CD90= 59.2%
 CD105= 55.4%
 CD73= 86.7%
 CD45= 3.19%
Total Viable Mesenchymal Stem Cell Count: 1,200,000 per mL. (This number is an approximation based on the use of bead markers. There is to be expected normal cell loss based on the steps to process the sample before Flow Cytometry testing. The 1,200,000 per mL number is the cell count that remains after testing protocol preparations.)

Frozen Sample ID

Excluding RBC contamination, cellularity consisted of 7.8×10^5 viable cells per mL. Viability based on exclusion of DAPI equals 43.1%. Cellular phenotype consisted of:
 CD90= 28.0%
 CD105= 35.1%
 CD73= 84.4%
 CD45= 4.06%
Total Viable Mesenchymal Stem Cell Count: 800,000 per mL. (This number is an approximation based on the use of bead markers. There is to be expected normal cell loss based on the steps to process the sample before Flow Cytometry testing. The 800,000 per mL number is the cell count that remains after testing protocol preparations.)

James Marvin
 Director, Flow Cytometry SRL

The highlighted text on page 2, represents the addition of data after the report was completed by James Marvin, Director of University of Utah's Flow Cytometry Lab.

*Authorization to alter the report was not given by James Marvin or the University of Utah.

**Permission to share the altered report with physicians or the industry was not granted by James Marvin or the University of Utah.