

## Summary of Cellular Therapy Assay Products

ASSAY TYPE	ASSAY NAME	CELL TYPE	DETECTS	APPLICATION
<b>Methylcellulose colony-forming unit (CFU) assays</b> Requires an inverted microscope with 40x-100x magnification	<a href="#">CAMEO™-4 for Stem Cell Processing Laboratories</a>	Stem and progenitor cells	Differentiation ability	Cell growth assay
<b>Absorbance / Colorimetric Assays</b> Requires an absorbance plate reader with a 490nm filter	<a href="#">HemoLIGHT™-96 PCA<sup>EQ</sup></a>	CAMEO™-4, MethoCult® equivalent stem and progenitor cells	Viability and proliferation ability	Alternative to and replacement for CFU assays
	<a href="#">HemoLIGHT™-96-PMT</a>	Stem cells, GM-CFC, Mk-CFC, BFU-E	Proliferation ability	Time to engraftment and “Global” detection of hematopoietic reconstitution
	<a href="#">ImmunoLIGHT™-96</a>	Immune cells/Accessory cells	Lymphocyte proliferation	Cellular immune response
	<a href="#">ImmunoLIGHT™-MLC</a>	Immune cells/Accessory cells	1- or 2-Way Mixed Lymphocyte Culture/ Reaction	Cellular immune response
	<a href="#">MSCLight™-96</a>	Mesenchymal stem cells (MSC)	Viability and proliferation ability	MSC proliferation/expansion
<b>Fluorescence Assays</b> Requires a fluorescence plate reader with excitation at 390-400nm and emission at 505nm	<a href="#">HemoFLUOR™-96 PCA<sup>EQ</sup></a>	CAMEO™-4, MethoCult® equivalent stem and progenitor cells	Viability and proliferation ability	Alternative to and replacement for CFU assays
	<a href="#">HemoFLUOR™-96 PMT</a>	Stem cells, GM-CFC, Mk-CFC, BFU-E	Proliferation ability	Time to engraftment and “Global” detection of hematopoietic reconstitution
	<a href="#">ImmunoFLUOR™-96</a>	Immune cells/Accessory cells	Lymphocyte proliferation	Cellular immune response
	<a href="#">ImmunoFLUOR™-MLC</a>	Immune cells/Accessory cells	1- or 2-Way Mixed Lymphocyte Culture/ Reaction	Cellular immune response

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<b>Fluorescence Assays</b> Requires a fluorescence plate reader with excitation at 390-400nm and emission at 505nm	<a href="#">MLCFluor™-96</a>	Mesenchymal stem cells (MSC)	Viability and proliferation ability	MSC proliferation/expansion
<b>ATP Bioluminescence Assays</b> Requires a plate luminometer	<a href="#">HALO®-96 PCA<sup>EQ</sup></a>	CAMEO™-4 or MethoCult® equivalent stem and progenitor cells	Viability and proliferation ability	Standardized and validated alternative to and replacement for CFU assays
	<a href="#">STEMpredict™</a>	Stem cells	Viability, cell functionality and proliferation ability	Standardized and validated 3 day predictive assay for stem cell growth
	<a href="#">HALO®-96 SPC-QC</a>	Primitive and/or mature stem cells	Viability and proliferation ability	Standardized and validated stem cell quality control assay for stem cell processing procedures
	<a href="#">HALO®-96 PQR</a>	Primitive and/or mature stem cells	Proliferation potential	Standardized and validated stem cell product potency assay
	<a href="#">HALO®-96 PMT</a>	Stem and progenitor cells	Proliferation ability	Time to engraftment and “Global” detection of hematopoietic and lympho-hematopoietic reconstitution
	<a href="#">ImmunoGlo™-96</a>	Immune cells/Accessory cells	Lymphocyte proliferation	Standardized cellular immune response
	<a href="#">ImmunoGlo™-MLC</a>	Immune cells/Accessory cells	1- or 2-Way Mixed Lymphocyte Culture/ Reaction	Standardized cellular immune response
	<a href="#">LUMENESC™-96 HuQC</a>	Mesenchymal stem cells (MSC)	Viability and proliferation ability	Standardized MSC quality control assay for processing procedures
	<a href="#">LUMENESC™-96 PQR</a>	Mesenchymal stem cells (MSC)	Proliferation potential	Standardized MSC product potency assay