Summary of ATP Bioluminomics™ Assays

To learn more about any of the assays, just click on the assay name to take you to the web page

APPLICATION	CELLS DETECTED	ASSAY NAME	USE
Metabolic viability	All	LIVEGlo™	Cellular and mitochondrial integrity. Active metabolism.
Stem cell research Basic research Veterinary Research	Lympho-hematopoietic stem and progenitor cells	HALO®-96 Research	Viability, cell functionality, proliferation and cell number. Alternative to and replacement for the CFC/CFU assay
Stem cell research Basic research Veterinary Research		CAMEO™-96	Clonal, methylcellulose, proliferation and differentiation assay
Stem cell research Basic research Veterinary Research	Lympho-hematopoietic stem cells	HALO®-96 PREP	Stem cell self-renewal and expansion potential
Cellular Therapy and Regenerative Medicine	Lympho-hematopoietic stem cells	STEMpredict™	Determine if cord blood unit is bankable. Mobilized peripheral blood collection.
	CFU-equivalent hematopoietic cells	HALO®-96 PCA^{EQ}	Alternative, non-subjective CFU-equivalent assays
	Mature and/or primitive stem cells	HALO®-96 SPC-QC	Stem cell processing quality control
	Primitive and mature lympho-hematopoietic stem cells	HALO®-96 PQR	Stem cell potency, quality and release assay
	Hematopoietic progenitor cells. Hematopoietic stem and progenitor cells. Lympho-hematopoietic stem and progenitor cells	HALO®-96 PMT	Time to engraftment. Monitoring reconstitution after transplantation
Toxicity Testing	Lympho-hematopoietic stem and progenitor cells	HALO®-Tox HT	High throughput stem and progenitor toxicity screening
	Lympho-hematopoietic stem cells	HALO®-96 PRT	Determination of residual toxicity and change in drug sensitivity
		HALO®-DDI (contract research only)	Cellular drug-drug interaction assay
Basic research Veterinary Research Cellular Therapy and Regenerative Medicine	Immune cells	ImmunoGlo™-96	Cellular immune reactions
Basic research Veterinary Research Cellular Therapy and Regenerative Medicine		ImmunoGlo™-MLC	1- or 2-way mixed lymphocyte culture (MLC) or reaction (MLR)
Toxicity Testing		ImmunoGlo™-HT	High throughput immune cell toxicity screening

APPLICATION	CELLS DETECTED	ASSAY NAME	USE
Stem cell research Basic research Veterinary Research	Mesenchymal stem cells (MSC)	LUMENESC™-96	Viability, cell functionality, proliferation and cell number. MSC passaging and expansion.
Cellular Therapy and Regenerative Medicine		LUMENESC™-96 HuQC	MSC processing quality control
		LUMENESC™-96 PQR	MSC potency, quality and release
Toxicity Testing		LUMENESC™-Tox HT	High throughput toxicity screening
		LUMENESC™-DDI (Contract research only)	Cellular drug-drug interaction assay
Stem cell research	Primary stem cells and stem cell lines	STEMGlo™	Viability, cell functionality, proliferation and cell number.
		STEMClone™	Clonal, methylcellulose, proliferation and differentiation assay
		STEMGlo™-PREP	Stem cell self-renewal and expansion potential
Toxicity Testing		STEMGlo™-HT	High throughput toxicity screening
		STEMGlo™-PRT	Determination of residual toxicity and change in drug sensitivity
Basic research Toxicity Testing	Neural stem and progenitor cells	NeuroGlo™-Complete	Viability, cell functionality. High throughput toxicity screening
Basic research Veterinary Research	*Ex vivo* primary explanted cells	XVPrime-Glo™	Viability, cell functionality, proliferation and cell number.
		XVPrime-Clone™	Clonal, methylcellulose, proliferation and differentiation assay
Toxicity Testing		XVPrime-Glo™ HT	High throughput toxicity screening
		XVPrime™-PRT	Determination of residual toxicity and change in drug sensitivity
Basic research Veterinary Research Toxicity Testing	Hepatocytes	HepatoGlo™-HT	Viability, cell functionality. Hepatotoxicity testing
Basic research Veterinary Research	Cell lines and tumor cells	CLGlo™	Viability, cell functionality, proliferation and cell number. Cell passaging and expansion.
Toxicity Testing		CLGlo™-HT	High throughput toxicity screening.