

HALO[®]-96 Research

The Most Advanced Assays for Hematopoietic Research using ATP Bioluminescence to Measure Stem and Progenitor Cell Proliferation and Viability

Benefits of Using HALO[®]-96 Research

- HALO[®]-96 Research is an instrument-based assay that quantitatively measures hematopoietic cell proliferation and viability.
- HALO[®]-96 Research complements and correlates with methylcellulose colony-forming unit (CFU) differentiation assays, but can also replace the CFU assay.
- Choose between low serum or serum-free formulations of proprietary Suspension Expansion Culture™ (SEC™) Growth Medium that allows the proliferation of rare hematopoietic cell populations to be detected in just 4-5 days for animal cells and 5-7 days for human cells.
- Uses a non-subjective, fully calibrated and standardized luciferin/luciferase bioluminescence readout that detects minute changes in intracellular ATP levels that correlate directly with the status and proliferation potential of rare stem and progenitor cell populations. ATP bioluminescence is the most sensitive and accurate signal detection readout available.
- HALO[®]-96 Research assay kits are available for individual and “global” lympho-hematopoietic cell populations derived from human, non-human primate, horse, sheep, pig, dog, rat or mouse tissues.
- Results available in less than 5 minutes for a complete 96-well plate after cell culture.
- Multiplexes with other assay readouts such as flow cytometry and gene expression analysis.
- Assay kits include everything needed to culture and measure hematopoietic cell proliferation (see next page). Just provide the cells.
- Compare results over time, from different experiments and samples without normalization.
- Easy to learn (1 day) and fast to use providing up to 24 samples/96-well plate assay kit. (Number of samples depends on number of replicate wells used. Unused wells will remain sterile for later experiments).

Uses of HALO[®]-96 Research

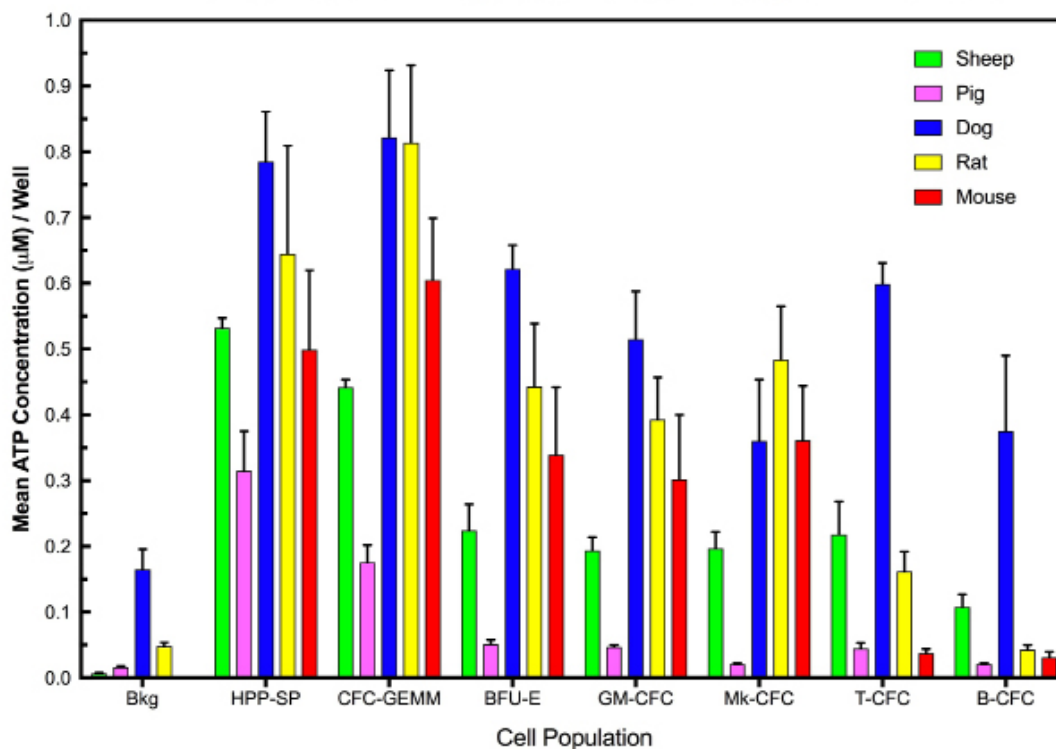
- Measure stem and progenitor cell proliferation.
- Determine the number of viable cells in proliferation.
- Compare hematopoietic cell populations from different species.
- Replaces hematopoietic colony-forming cell (CFC) assay applications.
- Experimental transplantation models.
- Effects of growth factors/cytokines.
- *In vivo* to *in vitro* assays.
- Gene targeting and editing assays.

High Quality, High Performance

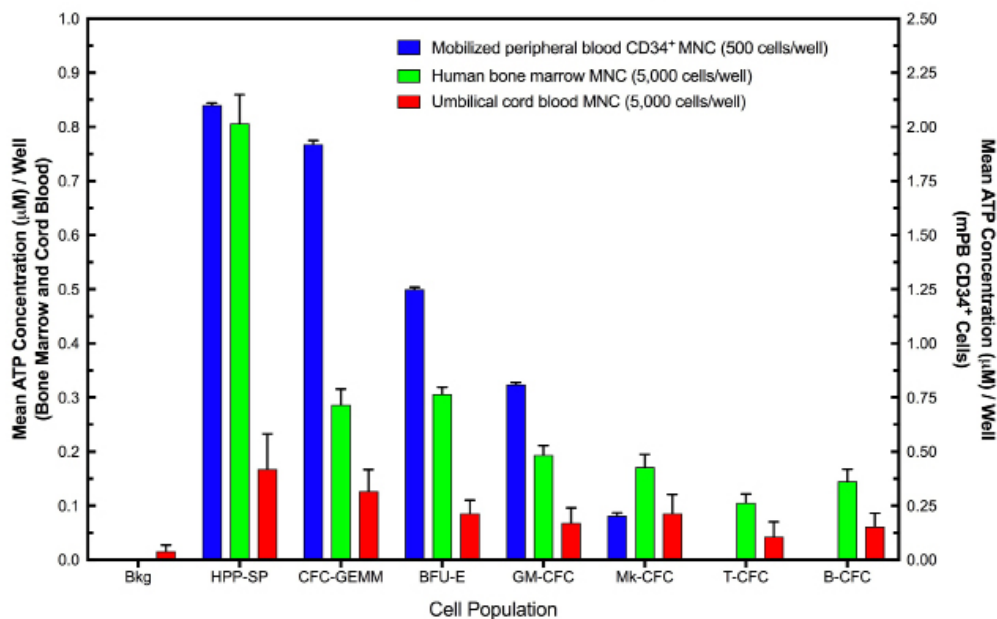
BETTER ASSAYS → BETTER SCIENCE

HALO[®]-96 Research

HALO[®]-96 Research 7-Population "Global" Assay for Animal Cells



HALO[®]-96 Research 7-Population "Global" Assay for Human Cells



Assays You Can Trust
Innovative Expertise You Can Count On