

# MSCLight™-96 Research

## Mesenchymal Stem / Stromal Cell (MSC) Absorbance Proliferation and Viability Assay

An accurate, sensitive, and highly reliable assay for MSCs that allows MSC phenotypic characterization and replaces the CFU-F assay

### Advantages of Using MSCLight™-96 Research

- Quantitatively measures MSC proliferation ability, potential and viability.
- Study MSC self-renewal capability.
- Quantify MSC expansion / passage ability.
- Follow MSC differentiation ability into different lineages.
- Replaces the manual and subjective CFU-F assay.
- Stromal cell assay applications.
- Determine the effects of growth factors/cytokines on MSCs and differentiation.
- *In vivo* to *in vitro* assays.
- MSC gene targeting assays.
- Multiplex with flow cytometry and other assays to characterize the MSC sample.
- Incorporates high-performance, low serum, serum-free or humanized MSCGro™ Medium for exceptional MSC expansion and growth.
- Incorporates a single MTS Enumeration Reagent that measures the amount of soluble formazan by absorbance at 490nm produced by a MTS tetrazolium reduction colorimetric reaction.
- After culture, just add 20µl of the MTS reagent and read absorbance at 490nm after 1-4 hours in a 96-well absorbance plate reader.
- No solubilization step as in a MTT reaction.
- Read results between 1-4 hours after addition of MTS reagent. Plates can be returned to incubator and re-read at a later time for increased sensitivity.
- Easily compare results over time. Always reliable and reproducible results with very low variation.
- Results usually obtained in 2-3 days (depending on MSC potential and species).
- Easy to learn, fast to use.

### A Powerful Absorbance Assay for Your MSC Research



Assays You Can Trust  
Innovative Expertise You Can Count On

# MSCLight™-96 Research

**MSCLight™-96**  
Research can be used for  
the following species:

- Human
- Non-human primate
- Rat
- Mouse
- Dog (New)
- Horse (New)

**MSCLight™-96 Research**  
can be used for MSCs from, but  
not limited to, the following  
tissues:

- Bone marrow
- Cord blood
- Wharton's Jelly
- Adipose tissue
- iPS-derived MSCs

**MSCLight™-96 Research**  
Kit Contents:

- MSCGro™ Medium of choice
- MTS Enumeration Reagent
- Sterile, clear 96-well plates
- Sterile, adhesive foil covers
- Instruction manual

## MSCGro™ Growth and Expansion Medium Available :

- MSCGro™ Low serum complete
- MSCGro™ Serum-free complete
- MSCGro™ Humanized complete
- MSCGro™ Humanized serum-free complete

## MSCGro™ Differentiation Medium Available:

- MSCGro™ Osteogenic Differentiation Medium
- MSCGro™ Adipogenic Differentiation Medium
- MSCGro™ Chrogenic Differentiation Medium

All formulations of MSCGro™ medium are available as 100ml and 500ml bottles.

## MSCLight™-96 Research Assay Kits Available:

Catalog Number	MSCGro™ Medium included:	Kit Size
KMCL-LS-1	Low Serum, complete	1 x 96-well plates
KMCL-SF-1	Serum-free, complete	1 x 96-well plate
KMCL-HM-1	Humanized, complete	1 x 96-well plate
KMCL-HSF-1	Humanized, serum-free	1 x 96-well plate
KMCL-CLS-1	Canine, low serum complete	1 x 96-well plate
KMCL-CSF-1	Canine, serum-free complete	1 x 96-well plate
KLML-EQLS-1	Equine, low serum complete	1 x 96-well plate
KMCL-EQSF-1	Equine, serum-free complete	1 x 96-well plate



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