



Certificate of Analysis

STEMPRO® Adipogenesis Supplement

Catalog Number: A10065

Lot Number: 2081577

Storage Temperature: -5 to -20C

Storage Instructions: Store in the dark

Expiration Date: 2020-03

For research use only. Not for use in diagnostic procedures.

TEST	SPECIFICATION	RESULT	UNITS
¹ Adipo/Osteo Growth Assay	Acceptable	Acceptable	
² Endotoxin Testing, as (1X)	$\geq 0.05 \text{ EU/mL}$	0.064	EU/mL
³ PCR Analysis	Acceptable	Acceptable	
⁴ Sterility Testing	Negative	Negative	

Read SDS

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Quality Systems Department

Date: 10-Apr-2019

REFERENCES:

- 1 Each lot of supplement is evaluated for growth and differentiation. During the growth assay, Human Mesenchymal Stem cells (hMSCs) are recovered from cryopreservation and plated into 75 cm² flasks. The cells are allowed to expand and one flask of undifferentiated cells are treated with Trizol and frozen. The remaining flasks are fed with complete media (supplemented with the respective test supplements) and allowed to proliferate and differentiate for seven days. The differentiated cells are treated with Trizol and frozen. The Trizol treated differentiated and undifferentiated cells are then forwarded for PCR analysis. To be considered acceptable, the samples require the presence of B2M and CD73 markers. Additionally, Adipogenesis supplement requires the expression of FABP4 marker and Osteogenesis Supplement requires the expression of RGC32 marker.
- 2 Current United States Pharmacopeia, <85> Bacterial Endotoxins Test.
- 3 Thermo Fisher Scientific Specifications.
- 4 Current Edition of USP, Thermo Fisher Scientific Modified.