

PRODUCT DESCRIPTION

StemBeads® Blank15 is a microparticle containing all typical components of our StemBeads products except the protein. StemBeads® Blank15 are microparticles composed of a FDA approved, biodegradable polymer. Under the microscope, the StemBeads® Blank15 will appear as dark circles that do not harm the cells, and with time will break down. StemBeads® Blank15 are the ideal vehicle control when experimenting with StemBeads® FGF2.

ORDERING INFORMATION

CATALOG #	PRODUCT NAME	SIZE	RELEASE
SB001	StemBeads® Blank15	3 mL	Not Applicable

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PRODUCT HANDLING/DIRECTIONS FOR USE

Reconstitution & Use:

StemBeads® Blank15 are provided as a ready-to-use 3 mL solution in DMEM/F12.

Storage & Stability:

Upon arrival store at 4°C. StemBeads® Blank15 are stable for up to 6 months without loss of activity when stored at 4°C.

Release Profile:

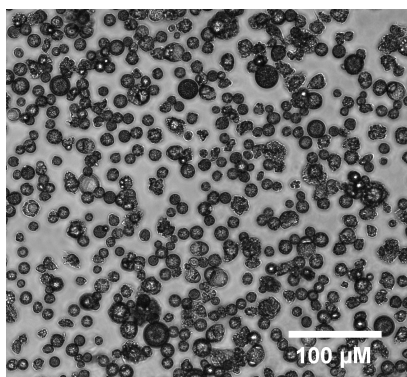
Not applicable. StemBeads® Blank15 are not loaded with any protein.

Physical Characteristics:

StemBeads® Blank15 are $15 \pm 2 \mu\text{m}$ in diameter.

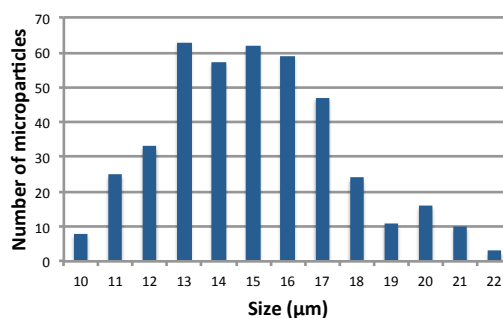
DATA

A



B

**StemBeads® Blank15
Average Size Distribution**



A) Phase image of StemBeads® Blank15 under 32X objective.

B) Average Size distribution of StemBeads® Blank15. Analysis performed using ImageJ (NIH).

REFERENCES

1. Lotz S., et al. Sustained Levels of FGF2 Maintain Undifferentiated Stem Cell Cultures with Biweekly Feeding. PLoS ONE 2013, 8(2).
2. van de Leemput J., et al. CORTECON: a temporal transcriptome analysis of in vitro human cerebral cortex development from human embryonic stem cells. Neuron. 2014, 83(1):51-68.
3. Boles, N.C., et al. NPTX1 regulates neural lineage specification from human pluripotent stem cells. Cell Rep. 2014, 6(4):724-36.

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