

## Certificate of Analysis

### DESCRIPTION

|                                |  |
|--------------------------------|--|
| <b>Product:</b>                | Microsphere-encapsulated recombinant human fibroblast growth factor 2                            |
| <b>Size:</b>                   | 1 mL or 3 mL   |
| <b>Date of Manufacture:</b>    | 3/13/2017  |
| <b>Expiration Date:</b>        | 9/13/2017  |
| <b>FGF2-Molecular Mass:</b>    | 16.3 kDA   |
| <b>FGF2-Primary Structure:</b> | Single non-glycosylated polypeptide chain without N-terminal methionin (154 amino acid residues) |

### PREPARATION AND STORAGE

|                                |   |
|--------------------------------|---|
| <b>Reconstitution:</b>         | Packaged as solution in DMEM/F12.   |
| <b>Use:</b>                    | 8 µL/mL StemBeads® FGF2 = 10 ng/mL slow release FGF2.   |
| <b>Shipping &amp; Storage:</b> | This product is shipped at 4°C. Upon receipt, store it immediately at 2-8°C under sterile conditions. |
| <b>Stability :</b>             | Stable for 6 months if stored at the recommended temperature above.                                   |

### SPECIFICATIONS

|                                      |   |         |             |
|--------------------------------------|---|---------|-------------|
| <b>Sterility:</b>                    | No growth of bacteria or fungi observed using direct immersion method in liquid culture | Result: | <b>PASS</b> |
| <b>FGF2 Protein Release Profile:</b> | 10 ng/mL ± 2 ng stable release of sol. FGF2 at StemBeads® FGF2 Conc. of 8 uL/mL         | Result: | <b>PASS</b> |
| <b>Average Size (diameter):</b>      | 15 µm ± 2 µm (Quantification performed using ImageJ software from NIH)                  | Result: | <b>PASS</b> |

This product is manufactured and controlled in accordance with all StemCultures Quality Control criteria.

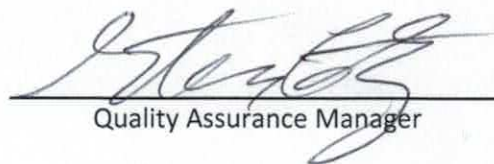
This products meets all StemCultures Quality Control criteria. Therefore it is hereby authorized to be released for sale.



Manufacturer

3/29/17

Date

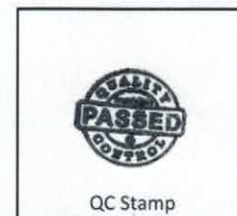


Quality Assurance Manager

03/29/17

Date

Please ensure the presence of Quality Control stamp; this certifies that the highest level of quality and metrics were used during StemCultures manufacturing procedures



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