

# CERTIFICATE OF ANALYSIS

Product Name:	SpheriCal® Neat Peptide High Range
Product Number:	PFS-22
Batch Number	PF2037
CAS Number:	N/A, Dendritic Calibrants (PFS3A, PFS3B, PFS3C, PFS3D)
Contains (molar %):	Dendritic Calibrants: PFS3A (25 %) PFS3B (25 %) PFS3C (25 %) PFS3D (25 %) May contain low molecular weight residues
Formula:	C <sub>194</sub> H <sub>228</sub> O <sub>66</sub> , PFS3A C <sub>257</sub> H <sub>300</sub> O <sub>88</sub> , PFS3B C <sub>320</sub> H <sub>372</sub> O <sub>110</sub> , PFS3C C <sub>388</sub> H <sub>454</sub> O <sub>133</sub> , PFS3D
Molecular Weight (Da):	3615.85, PFS3A 4797.08, PFS3B 5978.31, PFS3C 7245.68, PFS3D
Production Date:	JAN 2019
Latest Quality Control Date:	JAN 2019

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	OFF-WHITE OR TRANSPARENT	TRANSPARENT
APPEARANCE (FORM)	POWDER OR SOLID	SOLID
STRUCTURAL PURITY (MALDI*%)	≥ 98.0 %	OK
MALDI SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
ERROR PFS3A (MALDI*)	≤ 10 ppm	OK
ERROR PFS3B (MALDI*)	≤ 10 ppm	OK
ERROR PFS3C (MALDI*)	≤ 10 ppm	OK
ERROR PFS3D (MALDI*)	≤ 10 ppm	OK

\*MALDI-TOF analysis was performed with a Bruker Ultraflex in reflector mode. Sample spots were prepared from THF solvent

**SpheriCal® 3,500-7,500 (Na adduct), monoisotopic masses:**

3636.4382 Da, 4816.8898 Da, 5997.34129 Da, 7264.8688 Da (2<sup>nd</sup> isotopic mass)

