

CERTIFICATE OF ANALYSIS

Product Name: *SpheriCal Aqua Protein Low Range*
Product Number: PFS-33
Lot Number: BCCB2753

CAS Number: N/A

Contains (molar %): Dendritic Calibrants:
 PFQ4A (25%)
 PFQ4B (25%)
 PFQ4C (25%)
 PFQ4D (25%)
 May contain low molecular weight residues

Formula: C₂₃₀H₃₇₂O₁₃₈, PFQ4A
 C₃₀₅H₄₉₂O₁₈₄, PFQ4B
 C₃₈₀H₆₁₂O₂₃₀, PFQ4C
 C₄₆₀H₇₄₂O₂₂₇, PFQ4D

Molecular Weight (Da): 5345.33, PFQ4A
 7103.06, PFQ4B
 8860.79, PFQ4C
 10704.6, PFQ4D

Production Date: MAR 2019
Latest Quality Control Date: MAR 2019

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	TRANSPARENT or WHITE	TRANSPARENT
APPEARANCE (FORM)	POWDER or SOLID	SOLID
STRUCTURAL PURITY (MALDI*%)	≥ 98.0 %	OK
MALDI SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
ERROR PFQ4A (MALDI*)	≤ 10 ppm	OK
ERROR PFQ4B (MALDI*)	≤ 10 ppm	OK
ERROR PFQ4C (MALDI*)	≤ 10 ppm	OK
ERROR PFQ4D (MALDI*)	≤ 10 ppm	OK

*MALDI-TOF analysis was performed with a Bruker Ultraflex

SpheriCal Aqua Protein Low Range (5000-11 000 Da)

