

# CERTIFICATE OF ANALYSIS

Product Name: *SpheriCal 10-Point (Neat)*  
 Product Number: PFS-50  
 Batch Number: PF1768

Contains: Dendritic calibrants:  
 PFS-50A PFS-50F  
 PFS-50B PFS-50G  
 PFS-50C PFS-50H  
 PFS-50D PFS-50I  
 PFS-50E PFS-50J  
*May contain low molecular weight residues*

Formula: C<sub>92</sub>H<sub>108</sub>O<sub>30</sub>, PFS-50A C<sub>320</sub>H<sub>372</sub>O<sub>110</sub>, PFS-50F  
 C<sub>121</sub>H<sub>140</sub>O<sub>40</sub>, PFS-50B C<sub>398</sub>H<sub>468</sub>O<sub>138</sub>, PFS-50G  
 C<sub>150</sub>H<sub>172</sub>O<sub>50</sub>, PFS-50C C<sub>529</sub>H<sub>620</sub>O<sub>184</sub>, PFS-50H  
 C<sub>184</sub>H<sub>214</sub>O<sub>61</sub>, PFS-50D C<sub>660</sub>H<sub>772</sub>O<sub>230</sub>, PFS-50I  
 C<sub>257</sub>H<sub>300</sub>O<sub>88</sub>, PFS-50E C<sub>796</sub>H<sub>934</sub>O<sub>277</sub>, PFS-50J

Molecular Weight (Da): <i>no counter-ion</i>		Monoisotopic exact mass	Average mass
	PFS-50A	1 692.693	1 693.85
	PFS-50B	2 232.892	2 234.41
	PFS-50C	2 773.092	2 774.98
	PFS-50D	3 399.364	3 401.68
	PFS-50E	4 793.900	4 797.14
	PFS-50F	5 974.352	5 978.39
	PFS-50G	7 454.960	7 459.89
	PFS-50H	9 915.916	9 922.49
	PFS-50I	12 376.87	12 385.1
	PFS-50J	14 923.90	14 933.8

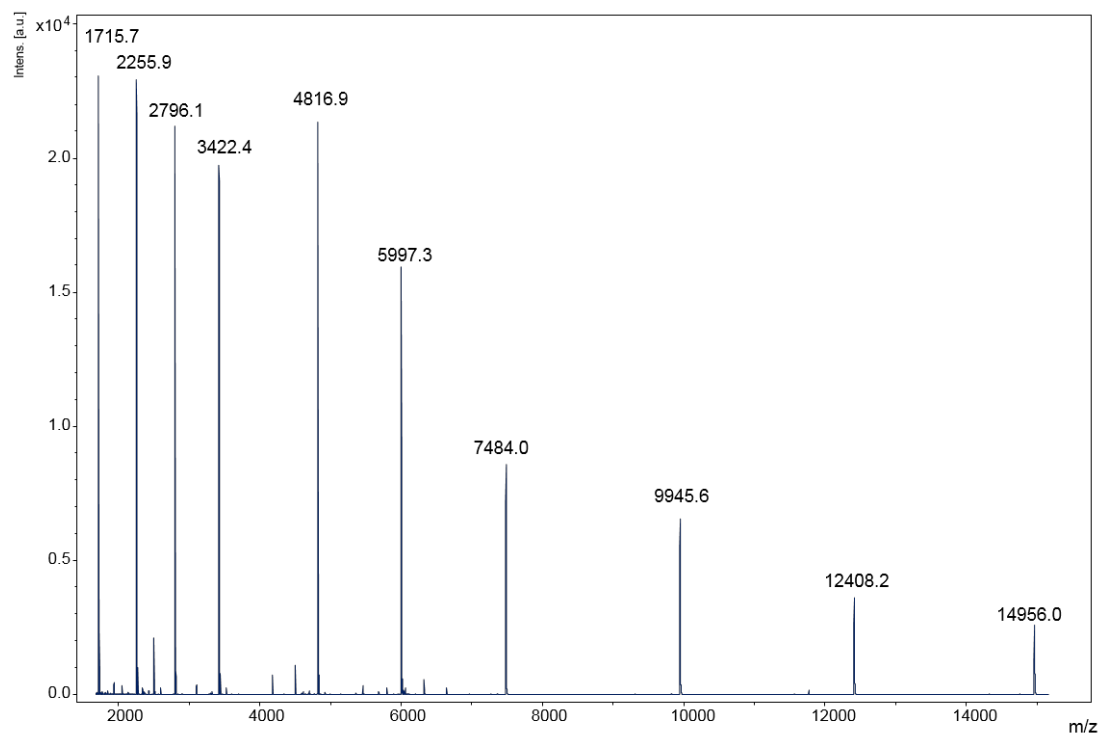
*Please refer to calibration guide for more mass information*

Production Date: SEPT 2017  
 Latest Quality Control Date: SEPT 2018  
 Expiry Date: 1 year after purchase

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

*\*MALDI-TOF analysis was performed with a Bruker Ultraflex. Sample spots were prepared with DCTB matrix, NaTFA cation source and THF solvent.*

SpheriCal® 10-point (Na adducts, DCTB matrix, reflector mode):



SpheriCal® 10-point (Na adducts, DCTB matrix, linear mode):

