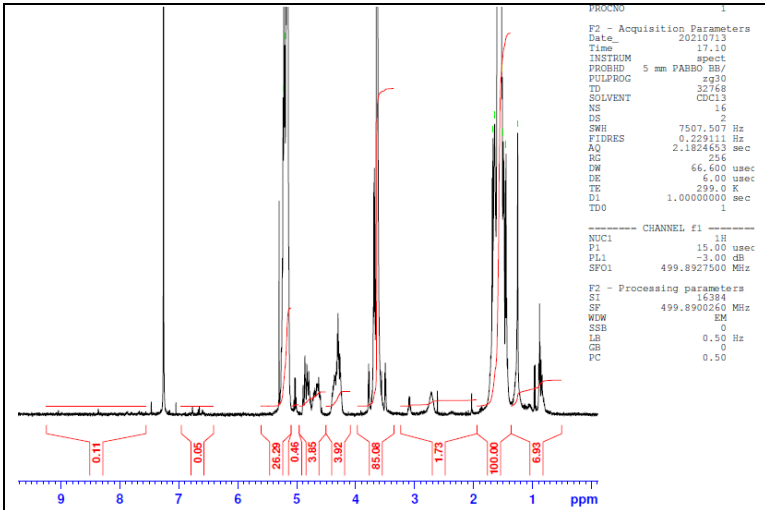


No. AV045

Certificate of Analysis



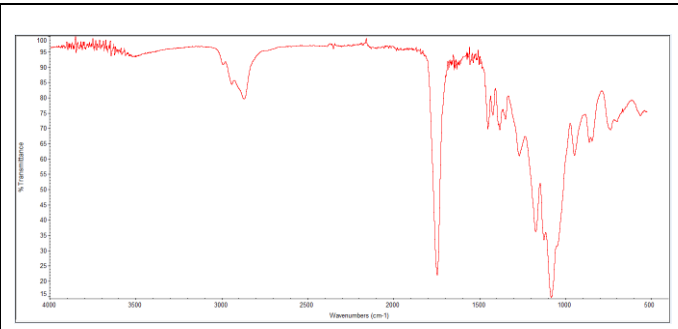
Product Name: Poly(lactide-co-glycolide)-b-Poly(ethylene glycol)-b-Poly(lactide-co-glycolide)- 5-(chlorotriazinyl) aminofluorescein endcap 1700-1500-1700Da (LA:GA 15:1 (94%/6% LA/GA) (w:w)) Lot #210702JSG-B



PROBHD 5 mm PABBO BB/
PULPROG zg30
SOLVENT CDCl3
NS 16
DS 2
SWH 7507.507 Hz
FIDRES 0.229111 Hz
AQ 2.1824653 sec
RG 256
DW 66.600 usec
DE 6.00 usec
TE 299.0 K
D1 1.00000000 sec
TDO 1

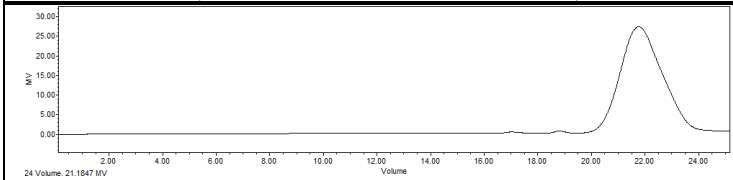
CHANNEL f1
NUC1 13
P1 15.00 usec
PL1 -3.00 dB
SFO1 499.8927500 MHz

F2 - Processing parameters
SI 16384
SF 499.8900260 MHz
WVW EM
SFB 0
LB 0.50 Hz
GB 0
PC 0.50



FTIR Analysis: Collected from Nicolet Avator 380 spectrometer with ATR Smart Orbit and analyzed in transmission mode.

H-NMR Spectrum of copolymers in CDCl3 (Bruker ≥300 MHz, PINMRF) NMR of PLGA-PEG copolymer: EG/LA-GA =34/42-3 (Mn EG/LA:GA 1498/3026:179 Da)



GPC Analysis Method: Waters Breeze 2 system with 1 ml/min THF flow across three GPC columns. Detection via refractive index, calibrated against polystyrene standards.

Dye Content: Testing of absorbance of polymer at 452nm as compared to a series of DTAF standards has indicated a dye content of: 0.511 µg/mg polymer.

| Polymer | M _n (from GPC) | M _w (from GPC) | PDI |
|----------------|---------------------------|---------------------------|------|
| PLGA-PEG-DTAF | 5986 | 7618 | 1.27 |
| PEG precursor* | 1484* | | |

*- from MFG data

Structure of PLGA-PEG-PLGA-DTAF copolymers

