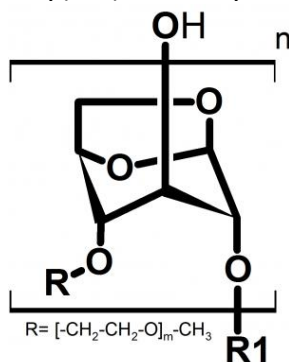


Certificate of Analysis

Product Name T1-30-F
Lot Number 445
Product Number T013004020300
Product Brand poly(2,3)Glucose™
Molecular Structure Poly(2-3)-1,6-anhydro-4-O-((CH₂-CH₂-O)_n-CH₃)-β-D-glucopyranose



Test	Specification	Lot 442 Result												
Sterility	Non-sterile processing	Conforms												
Contents weight	500 mg ± 5%	500 mg ± 0.5%												
Molecular weight	45≤M _n ≤85 kDa; M _n /M _w ≤1.1	M _n =79 kDa; M _n /M _w =1.06												
Appearance	White porous cake mass, easy to cut, soluble in CH ₂ Cl ₂ , THF. Film forming, films will absorb PBS at 4-37° C	Conforms												
Dissolution	The porous cake forms colorless 1- 20 % solutions in CH ₂ Cl ₂ and THF. Polymer is insoluble in ether, ethyl alcohol and hexane.	≤ 1 hour dissolution time												
PBS uptake	Polymer will absorb 15-85 % phosphate buffered saline, pH 7.4, in 8 hrs at +4° to +65° C	<table><tr><th>Temperature o C</th><th>PBS in film Wt. %</th></tr><tr><td>4</td><td>81%</td></tr><tr><td>23</td><td>61%</td></tr><tr><td>37</td><td>48%</td></tr><tr><td>65</td><td>17%</td></tr><tr><td>dry film</td><td>0%</td></tr></table>	Temperature o C	PBS in film Wt. %	4	81%	23	61%	37	48%	65	17%	dry film	0%
Temperature o C	PBS in film Wt. %													
4	81%													
23	61%													
37	48%													
65	17%													
dry film	0%													
Gel Temperature	n/a	n/a												
Specific Rotation	-50 to -80 deg, C=1.0%, THF, 22° C	-54 deg, C=1.0%, THF, 25° C												