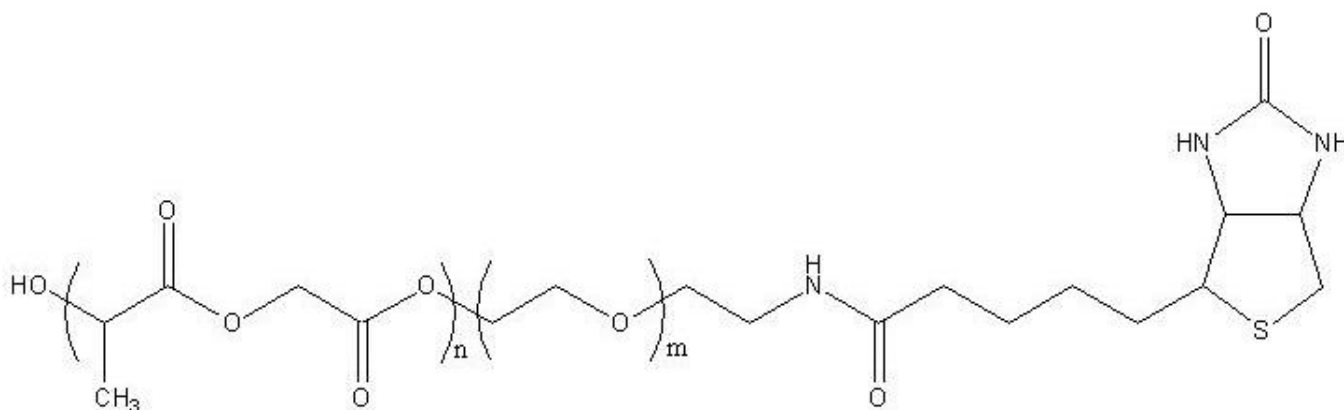


## Certificate of Analysis

### General properties:

Product Name: PLGA-PEG-Biotin PLGA LA/GA: 50:50, 75:25  
 Molecular Weight: PEG MW:550/750/1000/2000/3400/5000/10000 Dalton  
 PLGA MW:1000/2000/5000/7000/10000/15000/20000/25000/30000/35000/40000 Dalton  
 Catalog Number: R-PL1007  
 Lot Number: RA01703107

### Product Structure:



### Product Specifications:

Items	Specification	Results
Appearance	Off-white/brown solid or viscous liquid	Off-white/brown solid or viscous liquid
<sup>1</sup> H NMR	Identical to the Structure	Identical to the Structure
PDI	<1.3	<1.3
Substitution of Biotin by NMR	>90%	>90%



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Date of Analysis: 2017.08.26

Recommended Retest date: 2018.08.26

Recommended Storage: -20°C, protected from light and moisture

Stability: 1 year

**This product is for research use only, Not for human or animal use**