



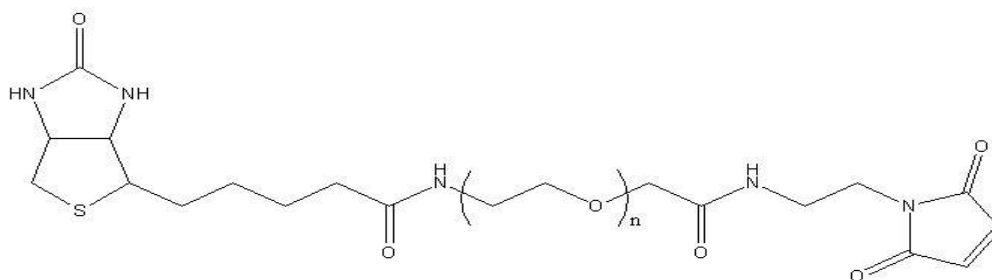
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## Certificate of Analysis

### General properties:

Product Name: Biotin-PEG-MAL  
Molecular Weight: PEG MW:750/1000/2000/3400/5000 Dalton  
Catalog Number: R-1303  
Lot Number: RO163323

### Product Structure:



### Product Specifications:

| Items                         | Specification                           | Results                                 |
|-------------------------------|---|---|
| Appearance                    | White/Off-white solid or viscous liquid | White/Off-white solid or viscous liquid |
| <sup>1</sup> H NMR            | Identical to the structure              | Identical to the structure              |
| Substitution of Biotin by NMR | >90%                                    | >90%                                    |
| Substitution of MAL by NMR    | >90%                                    | >90%                                    |

Date of Analysis: 2017.09.27

Recommended Retest date: 2018.09.26

Recommended Storage: -20°C

Stability: 1 year

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

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