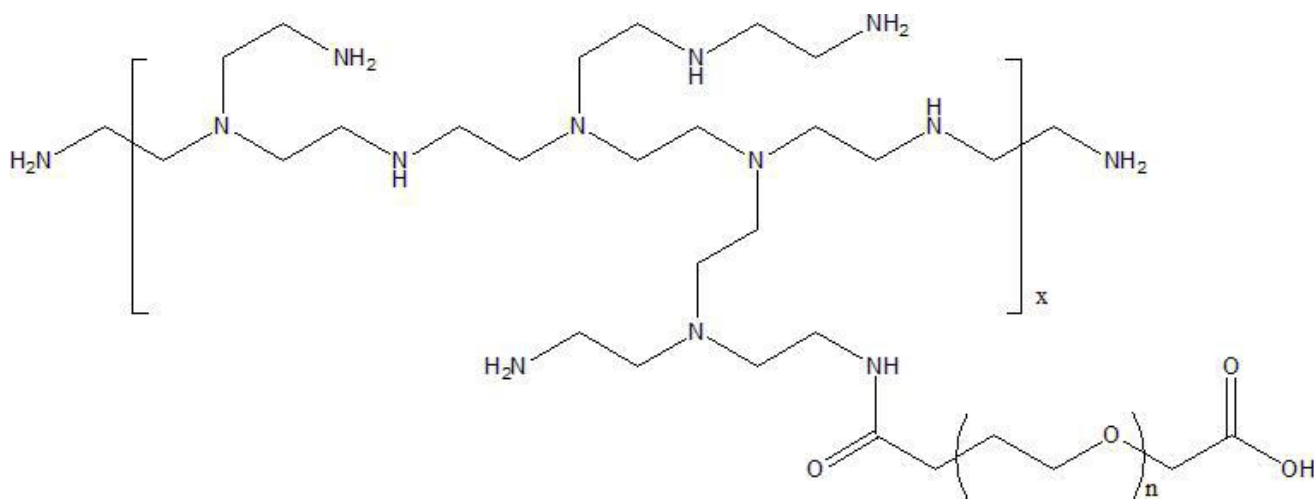


Certificate of Analysis

General properties:

Product Name: PEI-PEG-COOH
 Molecular Weight: PEG MW:1000/2000/3400/5000/10000/20000 Dalton
 PEI MW:600/1200/2000/2500/10000/25000 Dalton
 Catalog Number: R-PL2058
 Lot Number: RN091710

Product Structure:



Product Specifications:

Items	Specification	Results
Appearance	Solid powder or viscous liquid	Solid powder or viscous liquid
¹ H NMR	Identical to the structure	Identical to the structure
PDI	<1.6	<1.6
Substitution of SH by NMR	>90%	>90%



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Date of Analysis: 2017.11.03

Recommended Retest date: 2018.11.02

Recommended Storage: -20°C in the dark

Stability: 1 year

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