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**Certificate of Analysis**

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Product Name: Mal-PEG12-acid  
Cat. No.: GC61025  
Batch No.: 1  
Chemical Name:

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 2445165-75-1  
Molecular Formula:  $C_{31}H_{55}NO_{16}$   
Molecular Weight: 697.77  
Storage: Store at  $-20^{\circ}C$   
Chemical Structure:

**ANALYTICAL DATA**

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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