

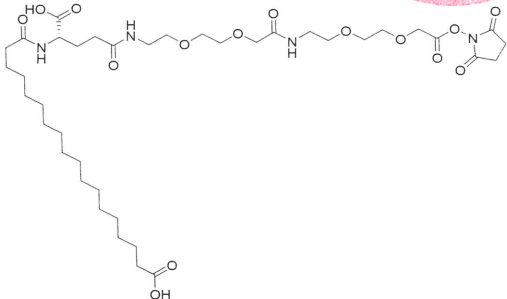


Changsha Morning Shine Co.,Ltd.
长沙晨辰医药科技有限公司

Certificate of Analysis

检验报告书

COA No.: CCCOA2501022

产品名称 Product Name	Ste-γ-Glu-AEEA-AEEA-OSU		
CAS 号 CAS No.	1169630-40-3	结构式/分子式/分子量: Structural /Chemical Formula/Molecular Weight:  Chemical Formula: C₃₉H₆₆N₄O₁₅ Exact Mass: 830.45 Molecular Weight: 830.97	
产品批号 Batch No.	CC0016-20241207-01		
货号 Cat No.	LK0065		
检验方法 Test Method	内控方法 In-house method		
生产日期 Manufacturing Date	2024.12.07		
复验日期 Retest Date	2026.12.06		
储存条件 Storage Condition	密封, 冷冻 (-20℃±5℃) Sealed and freezing (-20℃±5℃)		

测试结果

Results

检验项目 Test Items	可接受标准 Acceptance Criteria	检验结果 Results
外观 Appearance	白色至棕红色固体 White to red brown solid	白色固体 White solid
鉴别 Identification	LC-MS 供试品的 LC-MS 谱图显示的分子量应与其分子量相符 Corresponding to the molecular weight of this product.	符合规定 Corresponds
有关物质 Related substances	杂质 B: ≤ 10.0% Impurity B: ≤ 10.0%	2.2%
	杂质 C: ≤ 1.0% Impurity C: ≤ 1.0%	0.30%
	杂质 D: ≤ 0.1% Impurity D: ≤ 0.1%	0.05%
	杂质 G: ≤ 0.8% Impurity G: ≤ 0.8%	0.46%
	杂质 I: ≤ 0.2% Impurity I: ≤ 0.2%	0.08%
	杂质 J ₁ : ≤ 0.3% Impurity J ₁ : ≤ 0.3%	未检出 Not Detected
	杂质-J ₂ : ≤ 0.3% Impurity J ₂ : ≤ 0.3%	未检出 Not Detected
	杂质-M: ≤ 0.1% Impurity M: ≤ 0.1%	0.07%
	杂质-N: ≤ 0.1% Impurity N: ≤ 0.1%	未检出 Not Detected

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	非特定单杂: $\leq 0.30\%$ Max unspecified impurity: $\leq 0.30\%$	0.09%
	总杂: $\leq 15.0\%$ Total impurities: $\leq 15.0\%$	3.5%
溶剂残留 Residual solvents	甲基叔丁基醚: $\leq 5000\text{ppm}$ Methyl tert-Butyl Ether: $\leq 5000\text{ppm}$	未检出 Not Detected
	二氯甲烷: $\leq 2000\text{ppm}$ Dichloromethane: $\leq 2000\text{ppm}$	未检出 Not Detected
	乙酸乙酯: $\leq 50000\text{ppm}$ Ethyl acetate: $\leq 50000\text{ppm}$	6300ppm
纯度 Purity	$\geq 85.0\%$	96.5%
结论 Conclusion	本品符合上述标准规定。 The product conforms to the above specifications.	

备注: 杂质 B 为羧酸杂质、杂质 C 为 N,N-二甲基杂质、杂质 D 为丙氨酸杂质、杂质 G 为酰胺杂质、杂质 I 为脱水杂质、杂质 J₁/J₂ 为单叔丁酯杂质、杂质 M 为 AEEA 杂质、杂质 N 为 AEEA-AEEA-AEEA 杂质。

Note: Impurity B is a carboxylic acid impurity, impurity C is N, N-dimethyl impurity, impurity D is alanine impurity, impurity G is amide impurity, impurity I is dehydration impurity, and impurities J₁/J₂ are mono-tert-butyl ester impurities, impurity M is AEEA impurity, impurity N is AEEA-AEEA-AEEA impurity.

报告人/日期: 张勇/2025.01.16 审核人/日期: 王艳玲/2025.01.16 批准人/日期: 吴晓娟/2025.01.16
Reporter/Date Reviewer/Date Approver/Date