



Certificate of Analysis

 Product Name:
 CKK-E12

 Cat. No.:
 CS-0149249

 CAS No.:
 1432494-65-9

 Batch No.:
 430519

Chemical Name: 2,5-Piperazinedione, 3,6-bis[4-[bis(2-hydroxydodecyl)amino]butyl]-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_{60}H_{120}N_4O_6$ **Molecular Weight:** 993.62

Storage: Storage temp. 2-8°C

Chemical Structure:

OH OH OH

ANALYTICAL DATA

Appearance: Colorless to light yellow (Liquid)

¹**H NMR Spectrum:** Consistent with structure

Purity (NMR): ≥98.0%

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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