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**Certificate of Analysis**

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Product Name: Usaramine  
Cat. No.: GN10025  
Batch No.: 1  
Chemical Name: (5R,6S,9a1R,14aR,E)-3-ethylidene-6-hydroxy-6-(hydroxymethyl)-5-methyl-3,4,5,6,11,13,14,14a-octahydro-[1,6]dioxacyclododecino[2,3,4-gh]pyrrolizine-2,7(9H,9a1H)-dione

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 15503-87-4  
Molecular Formula:  $C_{18}H_{25}NO_6$   
Molecular Weight: 351.39  
Storage:  
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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