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**Certificate of Analysis**

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Product Name: VU 590 dihydrochloride  
Cat. No.: GC15369  
Batch No.: 1  
Chemical Name: 7,13-bis(4-nitrobenzyl)-1,4,10-trioxa-7,13-diazacyclopentadecane dihydrochloride

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 313505-85-0  
Molecular Formula:  $C_{24}H_{32}N_4O_7 \cdot 2HCl$   
Molecular Weight: 561.46  
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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