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**Certificate of Analysis**

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Product Name: Doxycycline HCl  
Cat. No.: GC13750  
Batch No.: 1  
Chemical Name: (4S,4aR,5S,5aR,6R,12aR)-4-(dimethylamino)-1,5,10,11,12a-pentahydroxy-6-methyl-3,12-dioxo-4a,5,5a,6-tetrahydro-4H-tetracene-2-carboxamide;hydrochloride

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 10592-13-9  
Molecular Formula:  $C_{22}H_{24}N_2O_8 \cdot HCl$   
Molecular Weight: 480.9  
Storage: Store at -20°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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