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**Certificate of Analysis**

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Product Name: 4-hydroxyephedrine hydrochloride  
Cat. No.: GN10101  
Batch No.: 1  
Chemical Name: 4-[1-hydroxy-2-(methylamino)propyl]phenol;hydrochloride

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 7437-54-9  
Molecular Formula:  $C_{10}H_{16}ClNO_2$   
Molecular Weight: 217.69  
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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