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**Certificate of Analysis**

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Product Name: MM 77 dihydrochloride  
Cat. No.: GC14891  
Batch No.: 1  
Chemical Name: 1-(4-(4-(2-methoxyphenyl)piperazin-1-yl)butyl)pyrrolidine-2,5-dione dihydrochloride

**PHYSICAL AND CHEMICAL PROPERTIES**

Cas. No.: 159187-70-9  
Molecular Formula:  $C_{19}H_{27}N_3O_3 \cdot 2HCl$   
Molecular Weight: 418.36  
Storage: Store at RT  
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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