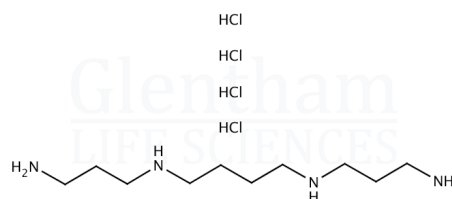


## Certificate of Analysis

Product Name Spermine tetrahydrochloride  
Glentham Code GL9744  
CAS Number 306-67-2  
EINECS 206-189-8  
MDL Number MFCD00012914  
PubChem SID 310280225  
Batch Number 130PXF

Molecular Weight 348.19  
Molecular Formula  $C_{10}H_{26}N_4 \cdot 4HCl$   
Storage Temp. +20°C



| Property             | Specification                         | Batch 130PXF             |
|----------------------|---------------------------------------|--------------------------|
| Physical Description | White to off-white crystalline powder | White crystalline powder |
| Water (KF)           | ≤ 1.0%                                | 0.2%                     |
| Assay                | ≥ 98.0%                               | 99.0%                    |

Specification Version v1.1  
Manufacture Date 2023-03-03  
Re-Test Date 2030-02-22

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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