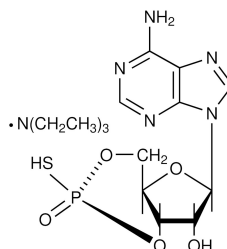


## Certificate of Analysis

**Product Name :** Sp-Adenosine 3',5'-cyclic monophosphorothioate triethylammonium salt hydrate ≥98% (HPLC), solid  
**Product Number :** A166-1MG  
**Batch Number :** 0000015840  
**Source Batch :** 104M4752V  
**CAS Number :** 93602-66-5 (anhydrous)  
**Storage Temperature :** Freezer -20°C  
**Molecular Formula :** C<sub>10</sub>H<sub>11</sub>N<sub>5</sub>O<sub>5</sub>PS · C<sub>6</sub>H<sub>16</sub>N · xH<sub>2</sub>O  
**Formula Weight :** 446.46(anhydrous basis)  
**Quality Release Date :** 31 Oct 2014



Test	Specification	Result
Appearance (Color)	White to Beige	White
Appearance (Form)	Powder	Powder
Elemental Composition	Pass	Pass
C <sub>10</sub> H <sub>11</sub> N <sub>5</sub> O <sub>5</sub> PS.C <sub>6</sub> H <sub>16</sub> N.xH <sub>2</sub> O		
ELEMENTAL ANALYSIS X VALUE	0.0 - 3.0	1.0
H <sub>2</sub> O (moles)		
Specific Rotation	-30.0 - -20.0 °	-23.5 °
C=0.1,water		
Purity (HPLC)	≥ 98.0 %	98.6 %
Identity	Confirmed	Confirmed

Brendan Nye, QC Supervisor

Quality Control

Natick, Massachusetts

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale.