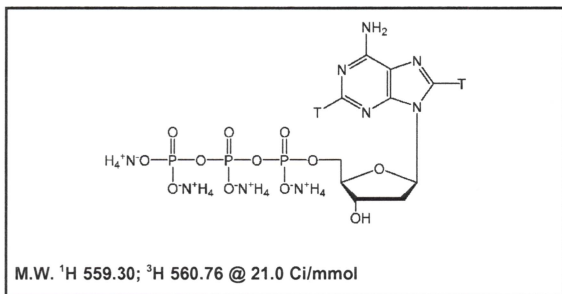


Certificate of Analysis

MT-644

2'-Deoxyadenosine 5'-triphosphate, tetraammonium salt, [2,8-³H]-



Lot #: 656-105-021-A-20180927-JPL

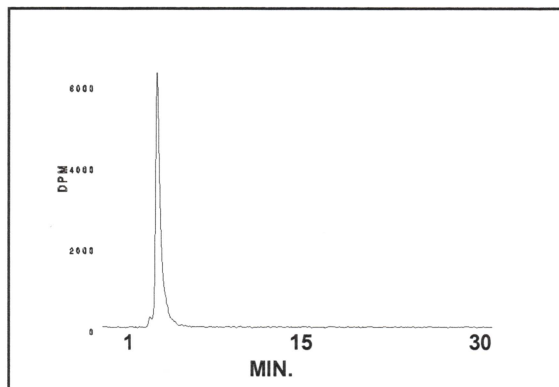
Specific Activity: 21.0 Ci/mmol

Concentration: 1.0 mCi/ml; 26.70 µg/ml

Packaged in: Ethanol : water (1 : 1) solution

Date of Analysis: March 12, 2019

Radiochemical Purity: 96.9%



HPLC ANALYSIS LOT 656-105-021-A-20180927-JPL
File Name: int47919 Date and Time: 3/12/2019 3:10:18 PM
Unit 4 Radio

| Peak # | Area % | Time | Area |
|--------|--------|---------|-------------|
| 1 | 2.36 | 3.69330 | 427.94552 |
| 2 | 96.89 | 4.24670 | 17549.48072 |
| 3 | 0.07 | 5.03670 | 13.40878 |
| 4 | 0.02 | 5.29330 | 3.48777 |
| 5 | 0.09 | 5.59670 | 16.18016 |
| 6 | 0.10 | 6.14330 | 18.18371 |
| 7 | 0.32 | 6.39330 | 57.18291 |
| 8 | 0.15 | 7.22000 | 27.03261 |
| Totals | 100.00 | | 18112.90218 |

Stability and Storage Recommendation: The rate of decomposition is approximately 1% / month for the first three months after purification when stored at -20°C.

Caution: This material was manufactured under research grade conditions and is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not suitable for use in humans or clinical diagnosis. Responsibility for its use and compliance with federal law rests solely with the purchaser. If the compound and/or any associated information/documentation derived from its use could be used for any potential future filings, research grade is not recommended.