

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

Catalog No. :	<u>220-91535-13</u>	Lot No.:	<u>A0170308</u>
Description :	<u>Custom 250 ug/mL Caffeine Standard</u>		
Container Size :	<u>20 mL</u>	Pkg Amt:	<u>> 20 mL</u>
Expiration Date :	<u>March 31, 2024</u>	Storage:	<u>10°C or colder</u>

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Caffeine	58-08-2	99%	251.4 µg/mL	+/- 1.4615 µg/mL
Solvent:	Water	7732-18-5	99%		

Column:
150mm x 4.6mm
Ultra C18 5 um (cat.# 9174565)

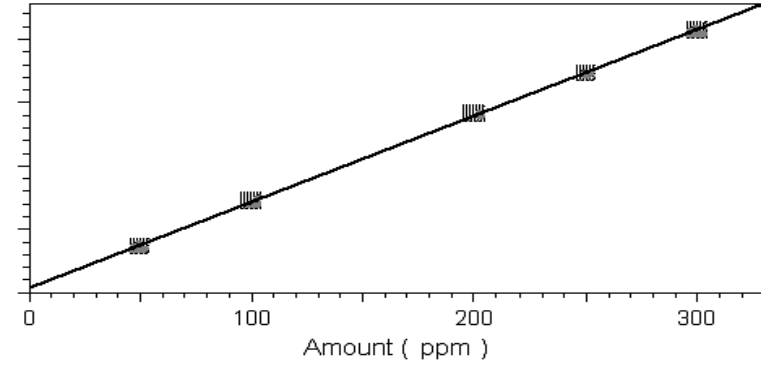
Flow Rate:
1 ml/min.

Mobile Phase A:
H2O

Mobile Phase B:
Acetonitrile

Mobile Phase Composition:
25%B

Det. Type:
Wavelength: 272 & 205 nm



Goodness of Fit (R²): 0.999

This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinni - Operations Tech I

Date Mixed: 17-Mar-2021 **Balance:** B345965662


Marlina Cowan - Operations Tech I

Date Passed: 19-Mar-2021

REVIEWED
By Jennifer Padiso at 10:48 am, Mar 19, 2021

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.