

Certificate of Analysis

47 W Polk St. STE 100-241
Chicago, IL 60605
liftmode@liftmode.com

LiftMode

Citicoline Sodium

 (Citicoline Sodium Salt)

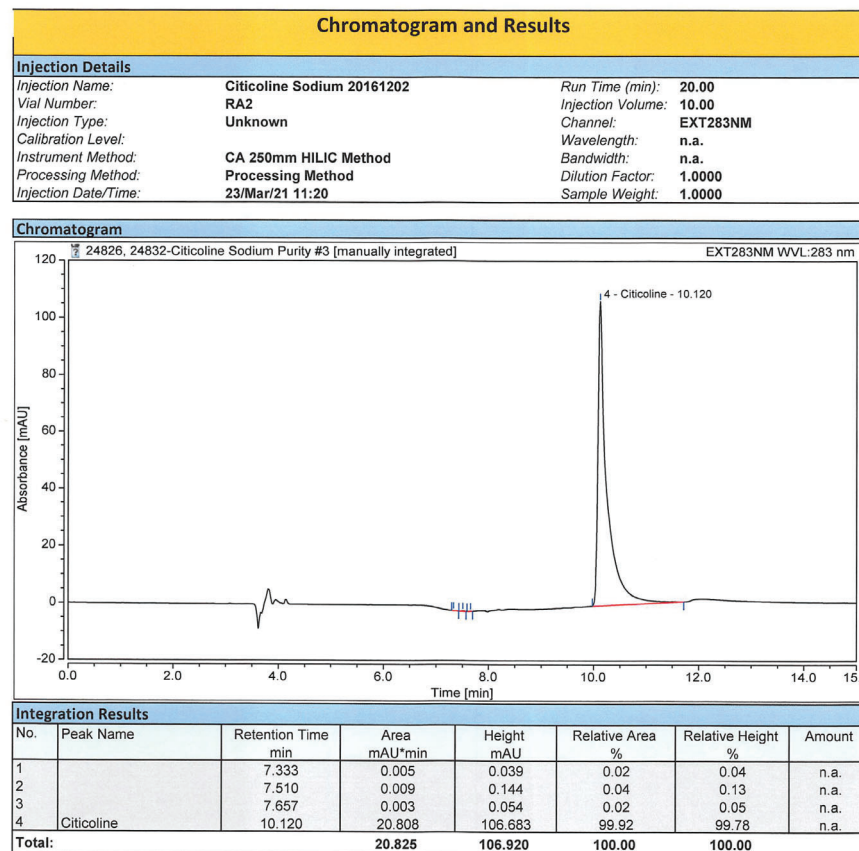
Material Lot #: 20161202 Test Date: 03/23/2021
Country of Origin: China Re-Test Date: 03/20/2024

Analysis	Claim	Result
Citicoline Sodium	≥99%	99.9%

Test	Specification	Result
Identification (H-NMR)	Conforms to Structure	Conforms
Purity (HPLC)	≥99%	99.9%
Lead	≤1 ppm	0.005 ppm
Mercury	≤1 ppm	0.143 ppm
Cadmium	≤1 ppm	0.012 ppm
Arsenic	≤1 ppm	<0.001 ppm

Instrument:Annex-1 Sequence:24826, 24832-Citicoline Sodium Purity

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Citicoline Sodium should be stored at or below room temperature in a tightly sealed durable container.
Citicoline Sodium should be protected from excess heat, direct sunlight, excess humidity, and moisture.
Citicoline Sodium has a retesting period of 3 years from the date of analysis when properly stored.



S & N LABS

2021 E. Fourth Street Santa Ana, California 92705 (714) 543-2211

26 March 2021

Job Number:	248324
PO Number:	verbal

Synaptent LLC
47 W. Polk Street #100-241
Chicago, Illinois 60605



Colmaric Analytical, LLC

812 Meadow Lark Lane, Goodlettsville, TN 37072
Telephone: 615-239-8604

Certificate of Analysis

Synaptent LLC
47 W Polk Street, 100-241
Chicago, IL 60654

Product Name	Citicoline Sodium	Product Lot Number	20161202
Report Date	04/19/18	Laboratory Number	10106

REPORT OF ANALYSIS

One jar labeled "Citicoline Sodium #20161202" was received on 5 March 2021. The powder in the bag was analyzed for specific component using high pressure liquid chromatography (HPLC). The results are summarized in the table below.

Sample	Chromatographic Purity (% area)
Citicoline Sodium #20161202	99.9

Description	Method	Result
Identification	Proton NMR	Conforms to structure
Assay	CA-095 (HPLC)	100.3%
Lead	ICP-MS USP <730>	0.005 ppm
Arsenic	ICP-MS USP <730>	<0.001 ppm
Cadmium	ICP-MS USP <730>	0.012 ppm
Mercury	ICP-MS USP <730>	0.143 ppm

Neil E. Spingarn, Ph.D.
President

Collin Thomas
Laboratory Manager

04/19/2018 4:14:18
Date

The result(s) stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to this work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

¹H NMR of Citicoline Sodium in D₂O Lot #10106 Colmaric Analytical 400 Mhz 4-13-18

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Current Data Parameters
EXPNO 4
PROCNO 1
F2 - Acquisition Parameters
Time 20180313
Date_Time 13:55
PROBHD 5 mm F4013
PULPROG zgpg30
SOLVENT DMSO
NS 6
DS 4
SWH 5208.332 Hz
AQ 3.1457281 sec
RG 384
IN 16
SFO 400.136097 MHz
NUC1 15N
TD0 1
===== CHANNEL f1 =====
NUC1 15N
P1 11.30 usec
PL1 0.00 dB
PC1 18.3565596 dB
SFO1 400.136097 MHz
F2 - Processing parameters
SI 32
SF 400.136097 MHz
WDW EM
  
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