

## **Nutra Specialities Private Limited**

Factory: Sy. No.69, Chandrapadiya Village, Vinjamur Mandal,

Nellore District - 524 228.

Andhra Pradesh. Phone: +91-8627-300100

## CERTIFICATE OF ANALYSIS

Product

: Tetracaine Hydrochloride

CAS No.

: [136-47-0]

Batch No.

: TH0040316

Date of Mfg : March-2016

Dispatch Qty: 50.0 Kg

Reference

Expiry Date: February- 2021

: EP 8.0

No. R0-CEP 2010-256-Rev 00

S.No	TEST	SPECIFICATION	RESULT	
1.0	Appearance	White or almost white, slightly hygroscopic, crystalline powder	White, slightly hygroscopic, crystalline powder	
2.0	Solubility	Freely soluble in water, soluble in ethanol (96%)	Freely soluble in water, soluble in ethanol (96%)	
3.0	Melting range (°C)	Between 134 and 147	143.1-144.5	
4.0	Identification by 185 Trive			
4.1	IR QA Release	The IR spectrum of the test sample should be concordant with the spectrum obtained from working standard	The IR spectrum of the test sample was concordant with the spectrum obtained from working standard	
4.2	Melting point (°C)	/ Should melt at about 131	131.7	
4.3	Chemical test	Should develop a violet colour	Positive	
4.4	Reaction of chlorides	Should respond to the test for chlorides	Positive	
5.0	Appearance of solution	Solution should be clear and colour less	Solution was clear and colour less	
6.0	рН	Between 4.5 and 6.5	5.72	
7.0	Related substances by HPLC (i	n %)		
7.1	Impurity-A	Not more than 0.05	Not detected	
7.2	Impurity-B	Not more than 0.1	Not detected	
7.3	Impurity-C	Not more than 0.1	Not detected	
7.4	Maximum unspecified impurities	Not more than 0.10	0.02	
7.5	Total impurities	Not more than 0.5	0.04	
8.0	Heavy metals (ppm)	Not more than 10	Less than 10	
9.0	Loss on drying (% w/w)	Not more than 1.0	0.26	
10.0	Sulphated ash (% w/w)	Not more than 0.1	0.06	
11.0	Assay by Potentiometry (on dried basis) (% w/w)	Not less than 99.0 and not more than 101.0	99.5	

Prepared By:

Checked By: &

Approved By:

Date: 10105/2016

Registered Office: No.4, 1st Floor, Bharathi Nagar, 4th Street, T. Nagar, Chennai - 600 017. Tel: +91-44-4298 4141, Fax: +91-44-42984118 Web: www.nutraspecialities.com / CIN: U24231TN2005PTC057504 Page 1 of 2



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S.No	TEST	SPECIFICATION	RESULT	
12.0	Assay by HPLC (on dried basis) (% w/w)	Not less than 99.0 and not more than 101.0	100.0	
13.0	Residual solvents by GC (in ppm)			
13.1	Methanol Jities F	Not more than 3000	Not detected	
13.2	Acetone OA Rel	ease Not more than 5000	Not detected	
13.3	Hexanes O sign	Not more than 290	Not detected	
13.4	Toluene Date:	Not more than 890	Not detected	
14.0	Genotoxic Impurities content by GC (in ppm)			
14.1	N-Butyl bromide	Not more than 15 ppm	Not detected	
14.2	N,N-dimethyl amino ethyl chloride HCl	Not more than 15 ppm	Not detected	

Remarks: The product confirms as per the above specification.

Prepared By:

Date:

Checked By:

Date:

Approved By: