

Azico Biophore India Pvt. Ltd 425/ 3RT, Door No. 7-1-621/328 SR Nagar, Hyd-38, TS, INDIA

? +91-40-2381 0385 / 23705066

昌 +91-40-2381 2709

info@azicobiophore.com

CERTIFICATE OF ANALYSIS

Product Name	LIOTHYRONINE SODIUM USP		
Reference	USP / In house	Mfg. Date	16/03/2018
Batch No.	4010/2/001/18	Retest Date	15/03/2020
Date of Analysis	28/03/2018	Sample Qty.	
Name of the Customer	No. 404		

S. No.	Test	Specification	Result		
1.	Description	Light tan, odorless, crystalline	Light tan, odorless,		
1.	Description	powder	crystalline powder		
	Solubility				
2.	In alcohol Slightly soluble in alcohol		Complies		
	In water	Practically insoluble in water	Complies		
	In organic solvents	Practically insoluble in most other	Complies		
	in organic sorvents	organic solvents.			
	Identification by				
	A) UV Absorptivity on dried	Do not differ by more than 5.0	2.0		
	basis (%)		2.0		
	B) Test for Iodine	Violet vapors should be evolved	Complies		
3.	C) Test for Sodium	White precipitate should be	Complies		
		produced			
	D) By HPLC	Retention time of sample should			
		conform to that of standard in	Complies		
		assay method.			
4.	Specific optical rotation(°) @	Between +18 to +22	+20.921°		
	25°C (On dried basis)				
5.	Loss on drying (%w/w)	Not more than 4.0	2.2		
6.	Chloride Content (%)	Not more than 1.2	Less than 1.2		
7.	Sodium Content (%)	NLT 2.9 and NMT 4.0	3.2		
8.	Limit of Levothyroxine	Not more than 5.0	0.08		
	sodium (%)				
9.	Assay By HPLC (%w/w)	Not less than 95.0 and Not more	99.2		
	(On dried basis)	than 101.0			
10.	Residual solvents (By HPLC) Test I (ppm)				
	a) Acetic acid	Not more than 5000	Not detected		
11.	Residual Solvents (By Headspace GC) Test II (ppm)				
	a) Methanol	Not more than 3000	1407		

	Prepared By	Checked By	Approved By
Name	Y. Mohan Rao	V. Udaya.V. Rao	S. Reddy Basha
Designation & Dept.	Sr. Chemist - QAD	Asst. Manager - QAD	Sr. Manager - QAD
Sign & Date	29105118	100 ra 105/2018	29/05/2018

Page 1 of 2

PLOT NO.: 40/A, J.N. PHARMA CITY, PARAWADA MANDAL, VISAKHAPATNAM, A.P. INDIA



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Product Name	LIOTHYRONINE SODIUM USP			
Reference	USP / In house Mfg. Date 16/03/2018			
Batch No.	4010/2/001/18	Retest Date	15/03/2020	
Date of Analysis	28/03/2018	Sample Qty.		
Name of the Customer	900 MM GM			

S. No.	Test	Specification	Result	
	b) Ethanol	Not more than 5000	Not detected	
	c) Acetone	Not more than 5000	BQL	
	d) IPA	Not more than 5000	Not detected	
	e) Acetonitrile	Not more than 410	BDL	
	f) Methyl isobutyl ketone	Not more than 4500	Not detected	
	g) Toluene	Not more than 890	Not detected	
	h) Anisole	Not more than 5000	Not detected	
12.	Residual Solvents (By Headspace GC) Test III (ppm)			
14.	a) Triethyl amine	Not more than 320	Not detected	

Packaging and Storage Conditions: Finished product shall be packed in transparent LDPE bag with nitrogen purging, and tied with nylon strip followed by black LDPE bag along with silica gel desiccant and tied with nylon strip followed by triple laminated bag along with O-buster and hot seal and followed by HDPE container.

Preserve in tight containers, store at 2-8°C.

Chemical Name of Impurities:

Levothyroxine sodium: L-Tyrosine, O-(4-hydroxy-3, 5-diiodophenyl)-3, 5-diiodo-, monosodium salt,

hydrate

Remarks: The Material Complies as per the above Specification.

	Prepared By	Checked By	Approved By
Name	Y. Mohan Rao	V. Udaya.V. Rao	S. Reddy Basha
Designation & Dept.	Sr. Chemist - QAD	Asst. Manager - QAD	Sr. Manager - QAD
Sign & Date	28/05/18	USD eg/05/2018	22/05/2018

Page 2 of 2

PLOT NO.: 40/A, J.N. PHARMA CITY, PARAWADA MANDAL, VISAKHAPATNAM, A.P. INDIA