



A-1, 401, 402 & 403, G.I.D.C. Industrial Estate. Ankleshwar-393 002. District : Bharuch, Gujarat, India. CIN: U24231GJ1992PTC018289

QUALITY CONTROL LABORATORY

The Drugs & Cosmetic Act 1940 & the rules thereunder

Format No.STP/QC/71/FM02

CERTIFICATE OF ANALYSIS

Name of Product: ISONIAZID Batch No 17057/INH

A.R. No Batch size : AC/INH/057/2017

Mfg. Date

: 24/02/2017

Date of Receipt

: 1050 kgs : 27/02/2017 Date of Completion: 20/02/2018

Exp. Date

: 23/02/2022

sampl	e quantity : 50 gm			BPÆP 9 ÆSPÆPÆN HOUS		
Sr.	TESTS	PHARMACOPOEIAL SPECIFICATION & RESULTS				
No.		EP/BP	USP	IP		
1.	Description / Characters	A white or almost white crystalline powder or colourless crystals.	Colorless or white crystals or white, crystalline powder. Odorless and is slowly affected by exposure to air and light.	Colourless crystals or a white, crystalline powder.		
ļ	Result	Complies	NA	NA		
2.	Solubility	Freely soluble in water, sparingly soluble in Alcohol.	Freely soluble in water, sparingly soluble in alcohol, slightly soluble in chloroform, and very slightly soluble in ether.	Freely soluble in water, sparingly soluble in ethanol (95%), slightly soluble in chloroform, very slightly soluble in ether.		
	Result	Complies	NA	NA NA		
3.	Identification:	(Perform Tests A&B or A&C)	(Perform Tests B&D)	(Perform Tests A & B or A&C)		
	A. Melting Point/ Melting Range:	170 °C to 174 °C	170 °C to 173 °C	170 °C to 174 °C		
	Result	171 °C	NA	NA		
	B. Infrared Absorption Spectrum	Should be concordant with IR spectrum of Isoniazid CRS / RS.	Should be concordant with IR spectrum of Isoniazid CRS / RS.	Should be concordant with IR spectrum of Isoniazid CRS / RS.		
	Result	Complies	NA	NA.		
	C. Melting Point of Derivative	226 °C to 231°C.	NA	226 °C to 231°C.		
	Result	NA	NA	NA V		

Analysed by

(QC Chemist) (Asmita Bhayani)

Checked by (QC Asst. Manager) (Nilesh Shah)

Approved by (QA Asst. Manager) (Kamal Bhatt)





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Sr.	TECTE	PHARMACOPOEIAL SPECIFICATION & RESULTS				
No.	TESTS	EP/BP	USP	IP		
	D. Ultraviolet Absorption Spectrum	NA	Should be concordant with UV spectrum of Isoniazid USP RS.	NA		
	Result	NA	NA	NA		
4.	Appearance of Solution:	A 5% w/v solution is clear and not more intensely colored than reference Solution BY ₇	NA	A 5% w/y solution is clear and not more intensely colored than reference Solution BYS ₇ .		
	Result	Complies	NA	NA		
5.	pHt:	The pH of a 5% w/v solution is 6.0 to 8.0	The pH of a 10% w/v solution is 6.0 to 7.5	The pH of a 5% w/s solution is 6.0 to 8.0		
	Result	7.2	NA	NA		
6.	Hydrazine and Related Substances (by TLC)	Chapterman den a		Andrew Control of the		
	Hydrazine	0.05%	NA	0.05%		
	Result	Complies	NA	NA		
	Total Related Substances (Except Hydrazine)	0.20%	NA	NA		
	Result	Complies	NA	NA		
7.	Reinted Substances As per IP (HPLC Method)	NA	NA	Any individual impurity is not more than 0.20%. Sum of all impuritie found is not more than 1.0 %.		
	Result	NA	NA	NA		

Analysed by

Analysed by (QC Chemist) (Asmita Bhayani) X0102/18

Checked by (QC Asst. Manager) (Nilesh Shah) Approved by (QA Asst. Manager) (Kamal Bhatt)





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	of Product: ISONIAZID		A.R. No	managed trace and the commencer of the c	C/INH/057/2017
Sr.		PHARMACOPOEIAL SPECIFICATION & RESULTS			
No.	TESTS		promotes and an incident		A Control of the Cont
none di Monte della consulati	William Control	EP/BP		SP	<u>IP</u>
8,	Heavy Metals	Not more than	Not more than		Not more than
	The second secon	10 ppm Pb 0.002% P			20 ppm Pb
9.	Result Loss on Drying	NA Not more than 0.50%		NA than 1.0%.	NA Not more than
y.	Loss on Diving	Not more than a.50%	Not more than 1.0 %.		0.50%
	Result	0.28 %		NA	NA
10.	Sulphated Ash	Not more than 0.10%.	NA		Not more than 0.10%.
	Result	0.02 %	1	NA	NA
11.	Residue on Ignition	NA	Not more than 0.20%		NA
	Result	NA.		NA	NA
12.	Assay	Not less than 99.0 %	Not less than 98.0 %		Not less than 98.0 %
	 	and not more than	and not more than		and not more than
	Codition of a second	101.0 % of CoH1N3O.	102.0 % of C ₆ H ₇ N ₃ O.		101.0% of C ₆ H ₇ N ₃ O
		(By Titrimetry)	(By HPLC)		(By HPLC)
	Result	100.1 % NA		NA	NA
Sr.		ADDITIONAL TESTS			de volte, ante es protes en management au au au article de constitue de la con
No.	TESTS	SPECIFICATION			Results
13.	Reinted Substances (In-House HPLC Method):				
	Isonicotinic Acid	Not more than 0.05%		0.0169 %	
	Isonicotinumide	Not more than 0.10% 0.00		0.0081 %	
	Nicotinoyl Hydrazide	Not more than 0.10% ND		ND	
	Diisonicotinoyl Hydrazine	Not more than 0.10%		ND	
	2-Isoniazid	Not more than 0.10%		ND	
	4-Cyanopyridine	Not more than 0.10%		ND	
	Benzoyl Hydrazine Any Other Single	Not more than 0.10%		ND	
	Impurity	Not more than 0.10%		ND	
	Total Impurities	Not more than 0.20%		0.0250 %	

Analysed by

(QC Chemist)
(Asmita Bhayani)

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Checked by (QC Asst. Manager) (Nilesh Shah) @110 1 10 10 11 1V

Approved by (QA Asst. Manager) (Kamal Bhatt)





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A.R. No

: AC/INH/057/2017

Sr.	ADDITIONAL TESTS				
No.	TESTS	SPECIFICATION	Results		
14.	Residual Solvents		The second secon		
	(In-House GC Method):				
	Benzene:	Not more than 2 ppm.	ND		
	Pyridine:	Not more than 200 ppm.	ND		
	Methyl Alcohol:	Not more than 3000 ppm.	246 ppm		
15.	Particle Size (by Sieve analysis)				
	NA	NA	NA		
16.	Microbiological Analysis				
	Total Viable Aerobic Count:	Not More Than 1000			
	Total Bacterial Count:	CFU/gm			
	Total Fungal Count	Not More Than 100	-		
	(Yeasts + Moulds):	CFU/gm	- NO.		
	Pathogens:				
	Escherichia coli	Should be absent.			
	Salmonella abony	Should be absent.	*		
	Staphylococcus aureus	Should be absent.	-		
	Pseudomonas aeruginosa	Should be absent.	-		
	Candida albicans	Should be absent.	j - ·		
	Aspergillus brasiliensis	Should be absent.	-		
	Clostridium sporogenes	Should be absent.	-		
	Shigella boyadii	Should be absent.	-		
17	Metal imparities: Skip test				
	Molybdenum	Not more than 3 ppm	Not detected		
	Nickel	Not more than 3 ppm	Not detected		
	Chromium	Not more than 3 ppm	2.48 ppm		
	Vanadium	Not more than 3 ppm	Not detected		

Conclusion:

In the opinion of the undersigned the sample referred to above complies / does not complywith the requirement as per EP 9 /BP/USP/IP and the In-House specification.

Analysed by

(QC Chemist) (Asmita Bhayani) Checked by (QC Asst. Manager)

(Nilesh Shah)

Approved by (QA Asst. Manager) (Kamal Bhatt)

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