



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 Name of Product: ISONIAZID

CERTIFICATE OF ANALYSIS

A.R. No

: AC/INH/207/2014

Batch No

: 14207/INH

Batch size

Mfg. Date

05/08/2014

Date of Receipt

: 1050 kgs : 09/08/2014

Exp. Date

: 04/08/2018

Date of Completion: 16/11/2014

2Ap. 1			Date of Completion			
Sr.		PHARMACOPOEIAL SPECIFICATION & RESULTS				
No.	TESTS					
		EP/BP	USP	IP		
1.	Description / Characters	A white or almost white crystalline powder or colour	Colorless or white crystals or white, crystalline powder.	Colourless crystals or a white, crystalline powder.		
		less crystals.	Odorless and is slowly affected by exposure to air and light.	powder.		
	Result	Complies	N. A.	N. A.		
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		
	Result	Complies	N. A.	ether. N.A		
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	N. A.	N.A		
	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	N. A.	N.A		
	C. Melting Point of Derivative	226 °C to 231°C.	N. A.	226 °C to 231°C.		
	Result	N.A	N.A	N.A		

Analysed by (Q.C. Chemist) Checked by

(Q.C. Incharge)

(Q.A. Manager)





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A.R. No	: AC/INH/207/2014
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Sr.		A.R. No : AC/INH/207/2014 PHARMACOPOEIAL SPECIFICATION & RESULTS			
No.	TESTS	I II III III COI ODIIII SI DOII IOIII IOI A ALBULIS			
. 10.	12315	EP / BP	USP	IP	
	D. Ultraviolet Absorption Spectrum	N. A.	Should be concordant with UV spectrum of Isoniazid USP RS.	N. A.	
	Result	N. A.	N. A.	N. A.	
4.	Appearance of Solution:	A 5% w/s solution is clear and not more intensely colored than reference Solution BY ₇	N. A.	A 5% w/v solution is clear and not more intensely colored than reference Solution BYS7.	
	Result	Complies	N. A.	N.A	
5.	рН:	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/v solution is 6.0 to 8.0	
	Result	7.2	N. A.	N.A	
6.	Hydrazine and Related Substances (by TLC)				
	Hydrazine	0.05%	N. A.	0.05%	
	Result	Complies	N. A.	N.A	
	Total Related Substances (Except Hydrazine)	0.20%	N. A.	N. A.	
	Result	Complies	N. A.	N. A.	
7.	Related Substances As per IP (HPLC Method)	N. A.	N. A.	Any individual impurity is not more than 0.20%. Sum of all impurities found is not more than 1.0 %.	
	Result	N. A.	N. A.	N.A	

Analysed by

(Q.C. Chemist)

Checked by (Q.C. Incharge)

71112914 Approved by (Q.A. Manager)





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Sr.		PHARMACOPOEIAL SPECIFICATION & RESULTS			
No.	TESTS				
		EP / BP	J	JSP	IP
8.	Heavy Metals	Not more than	Not more than		Not more than
	D/4	10 ppm Pb Complies	0.002% F	'b I. A.	20 ppm Pb N.A
9.	Result Loss on Drying	Not more than 0.50%		than 1.0%.	Not more than
٠.	Doss on Drying	True more than 0.5070	1,00 more	1,0 /01	0.50%
	Result	0.28 %		l. A.	N.A
10.	Sulphated Ash	Not more than 0.10%.		l. A.	Not more than 0.10%.
	Result	0.02 %		N.A	N.A
11.	Residue on Ignition	N. A.	Not more	than 0.20%	N. A.
	Result	N. A.		I. A.	N. A.
12.	Assay	Not less than 99.0 % and not more than 101.0 % of C ₆ H ₇ N ₃ O.	and not m		Not less than 98.0 % and not more than 101.0% of C ₆ H ₇ N ₃ O.
		(By Titrimetry)	102.0 % of C ₆ H ₇ N ₃ O. (By HPLC)		(By HPLC)
	Result	99.8%	N. A.		N.A
Sr.		ADDITION	AL TEST	S	
No.	TESTS	SPECIFICATION	ON		Results
13.	Related Substances (In-House HPLC Method):				
	Isonicotinic Acid	Not more than 0.05%		0.008 %	
	Isonicotinamide	Not more than 0.10% N.D		N.D	
	Nicotinoyl Hydrazide	Not more than 0.10%		N.D	
	Diisonicotinoyl Hydrazine	Not more than 0.10%		N.D	
	2-Isoniazid	Not more than 0.10%		N.D	
	4-Cyanopyridine	Not more than 0.10%		N.D	
	Benzoyl Hydrazine	Not more than 0.10%		0.028 %	
	Any Other Single Impurity	Not more than 0.10%		0.017 %	
	p			1	

Analysed by (Q.C. Chemist)

Checked by (Q.C. Incharge)

Approved by (Q.A. Manager)





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	of Product: ISONIAZID				
Sr.	ADDITIONAL TESTS				
No.	TESTS	SPECIFICATION	Results		
14.	Residual Solvents (In-House GC Method):				
	Benzene:	Not more than 2 ppm.	N.D		
	Pyridine:	Not more than 200 ppm.	N.D.		
	Methyl Alcohol:	Not more than 3000 ppm.	161 ppm		
15.	Particle Size N.A	N.A	N.A		
16.	Microbiological Analysis				
	Total Viable Aerobic Count:				
	Total Bacterial Count:	Not More Than 1000 CFU/gm	:		
	Total Fungal Count (Yeasts + Moulds):	Not More Than 100 CFU/gm	-		
	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.	_		
	Aspergillus brasilinesis	Should be absent.			
	Clostridium sporogenes	Should be absent.			

Conclusion:

In the opinion of the undersigned the sample referred to above complies / does not comply with the requirement as per EP8/BP/USP/IP and the In-House specification.

Analysed by (Q.C. Chemist)

Checked by (Q.C. Incharge)

Approved by (Q.A. Manager)