



ISO 9001:2015
Reg. No.: HQ91/1030



A-1 401, 402 & 403,
G.I.D.C. Industrial Estate,
Ankleshwar-393 002
District : Bharuch, Gujarat, India.
CIN : U24231GJ1992PTCO18285

QUALITY CONTROL LABORATORY

The Drugs & Cosmetic Act 1940 & the rules thereunder

Format No. STP/QC/71/FM02

CERTIFICATE OF ANALYSIS

Name of Product: ISONIAZID

A.R. No : AC/INH/399/2020

Batch No : 20399/INH

Batch size : 1000 kgs

Mfg. Date : 30/09/2020

Date of Receipt : 03/10/2020

Exp. Date : 29/09/2025

Date of Completion : 05/10/2020

Sample quantity : 50 gms

Analysed as per : BP/EP 10/USP/IN HOUSE

Sr. No.	TESTS	PHARMACOPOEIAL SPECIFICATION & RESULTS		
		EP / BP	USP	IP
1.	Description / Characters	White or almost white crystalline powder or colourless crystals.	Colorless or white crystals or white, crystalline powder, Is odorless.	Colourless crystals or a white, crystalline powder.
	Result	Complies	NA	NA
2.	Solubility	Freely soluble in water, sparingly soluble in ethanol (96 %)	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
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	NA	170 °C to 174 °C
	Result	170.8 °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
	D. By HPLC	NA	The retention time of the Isoniazid peak of the sample solution corresponds to that of the standard solution, as obtained in the assay.	NA
	Result	NA	NA	NA

Analysed by
(QC Chemist)
(Ganesh Patil)

Checked by
(Asst. QC Manager)
(A.R. Rajput)

Approved by
(Asst. QA Manager)
(Anil Patel)



JAS-8NZ

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CIN : U24231GJ1992PTCO18289

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CERTIFICATE OF ANALYSIS

A.R. No

: AC/INH/399/2020

Name of Product: ISONIAZID

Sr. No.	TESTS	PHARMACOPOEIAL SPECIFICATION & RESULTS		
		EP / BP	USP	IP
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/v solution is clear and not more intensely colored than reference Solution BY ₅₇
	Result	Complies	NA	NA
5.	pH:	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	7.12	NA	NA
6.	Related Substances (by TLC)			
	Any other single max	NA	NA	0.05%
	Result	NA	NA	NA
	Hydrazine	NA	NA	NA
7.	Impurity E by HPLC	Maximum 15 ppm	NA	NA
	Result	4.17 ppm	NA	NA
8.	Related Substances As per EP/BP/IP/USP (HPLC Method)	Impurity-A (Isonicotinic Acid) - Maximum 0.15 % Impurity-B (Isonicotinamide) - Maximum 0.15 % Unspecified Impurities - Maximum 0.10 % Total Impurities - Maximum 0.5 %	Isoniacin - Not more than 0.1 % Isonicotinamide - Not more than 0.1 % Picolinohydrazide - Not more than 0.1 % Isonicotinonitrile - Not more than 0.1 % Any Unspecified Impurity - Not more than 0.10 % Total Impurities - Not more than 2.0 %	Any individual impurity is not more than 0.20%. Sum of all impurities found is not more than 1.0 %.
	Result	Impurity-A - 0.0110 % Impurity-B - ND Unspecified Impurity - ND Total Impurities - 0.0110 %	NA	NA

30/11/2020

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(QC Chemist)
(Ganesh Patil)

30/11/2020

Checked by
(Asst. QC Manager)
(A.R. Rajput)30/11/2020
Approved by
(Asst. QA Manager)
(Anil Patel)

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QUALITY CONTROL LABORATORY

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Formal No. STP/QC/71/FM02

CERTIFICATE OF ANALYSIS

Name of Product: ISONIAZID

A.R. No : AC/INH/399/2020

Name of Product: ISONIAZID		A.R. No. : AC/INH/399/2020		
Sr. No.	TESTS	PHARMACOPOEIAL SPECIFICATION & RESULTS		
		EP / BP	USP	IP
9.	Heavy Metals	NA	Not more than 0.002% Pb	Not more than 20 ppm Pb
	Result	NA	NA	NA
10.	Loss on Drying	Not more than 0.5 %	Not more than 1.0%.	Not more than 0.50%
	Result	0.24 %	NA	NA
11.	Sulphated Ash	Not more than 0.10%.	NA	Not more than 0.10%
	Result	0.02 %	NA	NA
12.	Residue on Ignition	NA	Not more than 0.20%	NA
	Result	NA	NA	NA
13.	Assay (on dried basis)	Not less than 99.0 % and not more than 101.0 % of C ₆ H ₇ N ₃ O. (By Titrimetry)	Not less than 98.0 % and not more than 102.0 % of C ₆ H ₇ N ₃ O. (By HPLC)	Not less than 98.0 % and not more than 101.0% of C ₆ H ₇ N ₃ O. (By HPLC)
	Result	99.9 %	NA	NA
SR. NO.	TESTS	SPECIFICATION		Results
ADDITIONAL TESTS				
14.	Residual Solvents (In-House GC Method)			
	Benzene	Not more than 2 ppm.	ND	
	Pyridine	Not more than 200 ppm.	ND	
	Methanol	Not more than 3000 ppm.	342 ppm	
15.	Particle Size (by Sieve analysis)			
	NA	NA	NA	
16.	Related Substances (In-House HPLC Method):			
	Isonicotinic Acid	Not more than 0.05%	0.0115 %	
	Isonicotinamide	Not more than 0.10%	0.0084 %	
	Nicotinoyl Hydrazide	Not more than 0.10 %	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	Not more than 0.10%	ND	
	Any Other Single Impurity	Not more than 0.10%	0.0137 %	
	Total Impurities	Not more than 0.20%	0.0336 %	

Analysed by
(QC Chemist)
(Ganesh Patil)Checked by
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(Anil Patel)

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A.R. No

: AC/INH/399/2020

SR. NO	TESTS	SPECIFICATION	Results
17.	Microbiological Analysis		
	Total Viable Aerobic Count	Not More Than 1000 CFU/gm	-
	Total Bacterial Count:		
	Total Fungal Count (Yeasts + Moulds):	Not More Than 100 CFU/gm	-
	Pathogens:		
	<i>Escherichia coli</i>	Should be absent.	-
	<i>Salmonella abony</i>	Should be absent.	-
	<i>Staphylococcus aureus</i>	Should be absent.	-
	<i>Pseudomonas aeruginosa</i>	Should be absent.	-
	<i>Candida albicans</i>	Should be absent.	-
	<i>Aspergillus brasiliensis</i>	Should be absent.	-
	<i>Clostridium sporogenes</i>	Should be absent.	-
	<i>Shigella boydii</i>	Should be absent.	-
18*	Metal Impurities: Skip test		
	Molybdenum	Not more than 3 ppm	-
	Nickel	Not more than 3 ppm	-
	Chromium	Not more than 3 ppm	-
	Vanadium	Not more than 3 ppm	-

Conclusion:

In the opinion of the undersigned the sample referred to above complies / ~~does not comply~~ with the requirement as per EP 10 /BP/USP/IP and the In-House specification.

* Test No.18 Metal impurities 'Skip test'.

Remark: This batch COA is reprint on 30.11.2020.

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