



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

CERTIFICATE OF ANALYSIS

Format No. STP/QC/1/FM02

Name of Product: ISONIAZID

Batch No : 19420/INH

Mfg. Date : 11/11/2019

Exp. Date : 10/11/2024

Sample quantity : 50 gm

A.R. No : AC/INH/420/2019

Batch size : 1000 kgs

Date of Receipt : 14/11/2019

Date of Completion : 19/11/2019

Analysed as per : BP/EP 9.5/USP/IP 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. 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	171.5 °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

6/12/19

Analysed by
(QC Chemist)
(Jaydeep Patel)

8/12/19

Checked by
(QC Manager)
(Umesh Patel)

10/12/19

Approved by
(Sr. QA Officer)
(Anil Patel)

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Format No.STP/QC/71/EM02
Name of Product: ISONIAZID

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A.R. No : AC/INH/420/2019

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 ₇ .
	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
	Result	NA	NA	NA
7.	Impurity E by HPLC	Maximum 15 ppm	NA	NA
	Result	4.70 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 - ND Impurity-B - ND Unspecified Impurity - ND Total Impurities - ND	NA	NA

10/12/19
Analysed by
(QC Chemist)
(Jaydeep Patel)

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Checked by
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(Umesh Patel)

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A.R. No

: AC/INH/420/2019

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 9.5 / BPA/SP/IP and the In-House specification.

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

Remark: This batch COA is reprint on 10.12.2019.

10/12/19

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