

G. AMPHRAY LABORATORIES

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CERTIFICATE OF ANALYSIS

Product	: NIACIN BP / USP / EP	Date of Analysis	: 18.02.2008
Batch No.	: 005022008/N	Exp. Date	: January, 2013
Date of Mfg.	: February, 2008	Certificate No.	: 209
Quantity	: 1,000 Kgs.		

RESULT OF ANALYSIS

TESTS	OBSERVATION	SPECIFICATIONS
Description and Solubility / Characters	Snow white powder, odourless. Free from black particles. Melting Point 238 ° C and Complies	White crystals or crystalline powder, odourless or has a slight odour. Melts at about 235 ° C. Freely soluble in boiling water and in boiling alcohol, sparingly soluble in water and in solutions of alkali hydroxides and carbonates; practically insoluble in ether.
Identification Test (A) IR Test (B) UV C) Colour Test	Complies. Complies. Yellow colour develops	The IR absorption spectrum should be concordant with the spectrum of reference standard. Test as per USP. Treated with Cyanogen Bromide solution, and aniline solution. A yellow colour develops.
Melting Point	238 ° C	Between 234 to 240 ° C
Heavy Metals	Less than 5 ppm	Not more than 20 ppm
Chloride	Less than 25 ppm	Not more than 200 ppm
Sulphate	Less than 150 ppm	Not more than 200 ppm
Related Substances	Complies	Test as per BP
Loss on Drying	0.089 % w/w	Not more than 1.0 % w/w
Sulphated Ash	0.020 % w/w	Not more than 0.1 % w/w
Ordinary Impurities	Complies	Test as per USP
Residual Solvents	Solvents are not used in the process	
Assay 1) By Titration (On Dried Basis) 2) By U.V (USP Method)	99.90 % w/w 99.97 % w/w	Not less than 99.5 % w/w and not more than 100.5 % w/w of C ₆ H ₅ NO ₂ Not less than 99.0 % w/w and not more than 101.0 % w/w.

RESULT OF ANALYSIS

I. Particle Size	: Mesh No. 40	: 100 % Passes through.
	: Mesh No. 60	: 99.76 % Passes through.
	: Mesh No. 100	: 99.60 % Passes through.
	: Mesh No. 200	: 96.80 % Passes through.
II. Bulk Density	: Untapped	: 0.38 g / ml.
	: Tapped	: 0.58 g / ml.

REPORT : THE MATERIAL COMPLIES WITH RESPECT TO B.P 2007 / USP 30 / EP5 SPECIFICATIONS.

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AUTHORISED SIGNATORY