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CERTIFICATE OF ANALYSIS

Product	: NIACINAMIDE BP / USP / EP		
Batch No.	: 156032008 / A	Date of Analysis	: 03.03.2008
Date of Mfg.	: MARCH, 2008.	Exp. Date	: FEBRUARY, 2013.
Quantity	: 1,000 Kgs.	Certificate No.	: 449

RESULT OF ANALYSIS

Characters / Description and	OBSERVATION	SPECIFICATIONS
	Snow white, crystalline powder,	White, Crystalline Powder or colourles
Solubility.	odourless, free from black	crystals, it is, odourless or practically so, and
	particles and has a bitter taste.	has a bitter taste. It's solutions are neutral to
	Solution is neutral to litmus	litmus.
	and	Freely soluble in water and in ethanol and
	Complies.	soluble in glycerin, slightly soluble in ether.
Identification		
Test (A) IR	Complies	The IR Absorption spectrum should be
		concordant with the spectrum of reference
Test (B) UV Ratio A 245/A 262	0.66	
C) Heating with NaOH	Complies	standard.
(B.P.Method)		
D) Colour Test	Yellow colour develops	Between 0.63 and 0.67
(B.P.Method)		Heated with dilute sodium hydroxide
		solution, Ammonia is evolved.
		Treated with Cyanogen bromide solution
		and aniline solution. A yellow colour
		develops.
Melting Range	128.8 to 130.8 Deg. C	Between 128 to 131 Deg.C
Loss of Drying	0.097 % W/W	NMT 0.5% w/w
Residue on ignition	0.026 % W/W	NMT 0.1% w/w
Heavy Metals Less than 5 ppm		NMT 30 ppm
Readily Carbonisable	Complies	Test as per USP.
Substances		•
Related substances (TLC)	Complies	Test as per B.P.
PH of a 5 % w/v solution	7.18	Between 6.0 and 7.5
Appearance of a 5 % w/v		Clear and not more intensely coloured than
solution	Complies	reference solution BY7.
(B.P. Method)		
Organic Volatile Impurities.	Complies	Test as per USP.
Assay		
a. By Titration (B.P. Method) 99.74 % w/w		Not less than 99.0 % w/w
		Not more than 101.0 % w/w
		Calculated on dried basis.
	99.83 % w/w	Not less than 98.5 % w/w
b. By HPLC (USP Method)		Not more than 101.5 % w/w
b. By HPLC (USP Method)		Not more than 101.5 % w/w

:	Mesh 40	: 96.68 % Passes through
	Mesh 60	: 94.40 % Passes through
	Mesh 100	: 40.96 % Passes through
	Mesh 200	: 01.52 % Passes through
:	Untapped	: 0.55 g / ml
	Tapped	: 0.65 g / ml
	·	Mesh 60 Mesh 100 Mesh 200 : Untapped

REPORT : IN MATERIAL COMPLIES WITH RESPECT TO B.P 2007 / USP 30 / EP 5 SPECIFICATIONS.

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AUTHORISED SIGNATORY