

Sr. No.	Test	Specification	Result
1.	Description and Solubility	White, crystalline powder. Is odorless or practically so, and has a bitter taste. Its solutions are neutral to litmus. Freely soluble in Water and in Alcohol. Soluble in Glycerin.	White crystalline powder, It is odorless and has a bitter taste. Its solutions are neutral to litmus. Freely soluble in Water and in Alcohol. Soluble in Glycerin.
2.	Identification		
	A. IR Absorption	IR absorption spectrum of the sample should be concordant with the spectrum obtained with Niacinamide working standard.	IR absorption spectrum of the sample is concordant with the spectrum obtained with Niacinamide working standard.
	B. UV Absorption	UV spectrum of the sample should be concordant with that of working standard spectrum. The A_{245}/A_{262} ratio is 0.63 - 0.67.	UV spectrum of the sample is concordant with that of the working standard spectrum. The A_{245}/A_{262} ratio is 0.65
3.	Melting Range	128 °C - 131 °C	128.3°C – 129.1°C.
4.	Loss on Drying (Over Silica gel for 4 hr.)	NMT 0.50 % w/w	0.05 % w/w
5.	Residue on Ignition	NMT 0.10 % w/w	0.08 % w/w
6.	Readily carbonizable substances	The Sample solution has no more color than Matching Fluid A.	The sample solution has no more color than Matching Fluid A.
7.	Assay (by HPLC)	NLT 98.5 % w/w and NMT 101.5 % w/w of Niacinamide ($C_6H_6N_2O$), calculated on the dried basis.	99.8% w/w
Additional Test			
8.	Heavy Metals (As Pb)	NMT 20 ppm	Less than 20 ppm