

SPECIFICATION SHEET

Product Name	Natural Caffeine
Shelf Life	3 Years

PARAMETERS	SPECIFICATION
PHYSICAL CHARACTERISTICS	
Description	White to almost white crystalline Powder
Solubility	Sparingly soluble in water. Soluble in methanol, partially insoluble in methylene chloride
Identification	
A. By IR	IR spectra of test sample should be concordant to the IR spectra of caffeine working standard.
B. By color test	Residue acquires a purple color, which disappears upon the addition of a solution of 1N sodium hydroxide
Identification By HPLC	Retention time of major peak of test sample should be Concordant with caffeine standard.
Water	NMT 5% w/w
Residue on ignition	NMT 0.1% w/w
Sieve Test	100% passes Through US20#, NMT 50% passing through US100#
Bulk density (untapped)	Between 0.50-0.65 gm/ml
Heavy Metals	
Arsenic	NMT 1 PPM
Lead	NMT 0.5 PPM
Mercury	NMT 0.1 PPM
Cadmium	NMT 0.5 PPM
Melting range	Between 235 and 239°C
Readily carbonized substances	The solution has no more color then matching fluid D
Organic volatile impurities	
Chloroform	NMT 60 ppm
Other alkaloid	No particulate is formed
Individual impurities	NMT 0.1%
Total impurities	NMT 0.1%
Assay (On dried basis)	
By HPLC	NLT 99%

LEGEND: D.P –Dry Powder, NMT- Not More Than, NLT- Not Less than, cfu/gm- Colony Forming Unit/gram.

PREPARED BY	REVIEWED BY	APPROVED BY
Q.C Executive	Q.C Manager	Q.A Manager
		

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