

WRS  
C55-3

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# WORKING STANDARD CERTIFICATE OF ANALYSIS

Name of Product: Caffeine B.P (Anhydrous)



Batch No	CF/1520072	A.R. No.	AIL5/FP/150122
Mfg. Date	Jul.2015	Date of Sampling	04.08.2015
Exp. Date	Jun.2020	Date of Analysis	04.08.2015
Qty.	1.0gm	Use Before	04.08.2016

S.No	TEST	SPECIFICATION	RESULT
01	Appearance	White or almost white crystalline powder or silky, white or almost white, crystals.	White crystalline powder
02	Solubility	Sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol (96%). It dissolves in concentrated solutions of alkali benzoates of salicylates.	complies
03	Identification		
	Identification A: Melting point	234° C to 239° C	235 °C
	By infrared absorption spectroscopy	The IR spectrum obtained from the test sample is concordant with the IR spectrum obtained from working standard	Complies
04	Appearance of solution	Solution is clear and colorless	complies
05	Acidity	Not more than 0.1 ml of 0.02 M sodium hydroxide is required to change the color of the indicator to blue	Complies
06	Related substances By HPLC	Unspecified impurities: NMT 0.1% Total impurity : NMT 0.1%	0.04% 0.04%
07	Test for sulphates	Not more than 500 ppm	Less than 500 ppm
08	Heavy metals	Not more than 20 ppm	Less than 20 ppm
09	Loss on drying	Not more than 0.5%	0.20%
10	Sulphated ash	Not more than 0.1%	0.04%
11	Assay (on dried basis)	98.5% to 101.5%	99.77%

ASSAY ON AS IS BASIS

99.57%

REMARKS: The material Complies as per BP specification.

Prepared By	Checked By	Approved By
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