

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CAFFEINE ANHYDROUS Standard BP2005/USP 29

TEST:	SPECIFICATION (BP2005 & USP29)	RESULT:
CHARACTERS	A WHITE, CRYSTALLINE POWDER	SATISFACTORY
IDENTIFICATIONS	POSITIVE REACTION	CONFIRMED
ACIDITY	10ML OF SOLUTION S CONSUMES 0.01MOL/L NaOH \leq 0.2ML	COMPLIES
APPEARANCE OF SOLUTION	CLEAR, COLORLESS	COMPLIES
READILY CARBONIZABLE SUBSTANCE	NO MORE COLOR THAN MATCHING FLUID D	COMPLIES
OTHER ALKALOIDS	NO PRECIPITATE IS FORMED	COMPLIES
ORGANIC VOLATILE IMPURITIES	MEETS THE REQUIREMENTS	UNDETECTED
HEAVY METALS	\leq 10PPM	<10PPM
SULPHATES	\leq 500PPM	<300PPM
RELATED SUBSTANCES	\leq 0.5%	<0.5%
CHROMATOGRAPHIC PURITY	\leq 0.1%	0.06%
LOSS ON DRYING	\leq 0.5%	0.20%
SULPHATED ASH	\leq 0.1%	0.04%
MELTING POINT	235°C ~ 239°C	236°C ~ 237°C
ASSAY	98.50% ~ 101.0%	99.60%

CONCLUSION: CONFORM TO SPECIFICATIONS OF BP2005/USP29 GRADE