

FINISHED PRODUCT SPECIFICATION

PRODUCT NAME: **SODIUM BENZOATE (E-211) FCC IX / BP / USP / LR / AR**

1.	APPEARANCE	:	White free flowing powder, dust free
2.	TASTE AND ODOR	:	No off taste or odor
3.	ASSAY ON DRY PRODUCT	:	Min. 99.9%
4.	LOSS ON DRYING	:	Max. 1.0%
5.	COLOR	:	Max 10 APHA (10% (m/m) solution in water)
6.	ACIDITY	:	Max. 0.2 mg/NaOH/g
7.	ALKALINITY	:	Max. 0.25 mg HCL/g
8.	PHENOL CONTENT	:	Max. 2 mg/kg (2 ppm Max.)
9.	INSOLUBLE MATTER	:	To pass test
10.	HEAVY METALS	:	<10 mg/kg
11.	IRON	:	<1 mg/kg
12.	MERCURY	:	<0.1 mg/kg
13.	SO ₄ ²⁻ (SULFATE CONTENT)	:	<50 mg/kg (Max. 50 ppm)
14.	Cl ⁽¹⁾ (CHLORIDE CONTENT)	:	<50 mg/kg (Max. 50 ppm)
15.	HALOGENATED COMPOUNDS AS Cl ⁽²⁾	:	<25 mg/kg (Max. 25 ppm)
16.	TOTAL CHLORIDE, AS Cl-	:	<75 mg/ kg (Max. 75 ppm)
17.	TURIBITY	:	<0.5 NTU (of a 10% (m/m) solution in water)
18.	OXIDIZABLE SUBSTANCES	:	<0.1 ml 0.02 mol. / gm KMnO ₄ /g
19.	ORGANIC VOLATILE IMPURITIES	:	To pass test
20.	POLYCYCLIC ACIDS	:	To pass test
21.	PHTHALIC ACID	:	Max. 50 mg/kg

TYPICAL CERTIFICATE OF ANALYSIS

Name of Product : Sodium Benzoate Powder BP/ USP / E-211

Test Item	Specification	Reference	Test Result
Character	Appearance : White crystalline Powder	BP2000	Complies
	Appearance Of Solution: Clarity Clear Colour Y6	BP2000	Complies
Identification	Benzoate : Positive	BP2000 / FCC	Complies
	Sodium : Positive	BP2000 / FCC	Complies
Acidity Or Alkalinity	NMT 0.2 ml of 0.1N HCL per gm of sample (BP2000) (E-211) NMT 0.25 ml of 0.1N NaOH per gm of sample (E-211)	BP2000 / E-211	Complies
Halogenated Compounds	Chloride : 200 ppm Max Total Chloride : 300 ppm Max	BP2000	Complies
Heavy Metals	10 ppm Max	BP2000 / E-211	Complies
Loss on drying	2.00% Max	BP2000	0.5%
Loss on drying	1.50% Max	E-211	0.5%
As (Arsenic)	3 ppm Max	E-211 / FCC	Passes
Lead (Pb)	2 ppm Max	E-211	Passes
Mercury	1 ppm Max	E-211	Passes
Residual Solvents	Should pass FCC / BP Limit Tests	FCC / BP	Passes
Assay	99.0%-100.5%	BP2000 / E-211	99.70%

Conclusion : Confirms to BP2000 and E-211 Standards.