



M/s. Bimal Pharma Pvt. Ltd.
Mumbai, India

ISO 9001 : 2015



Cert. No.: 110661/A/0001/UK/En

TYPICAL CERTIFICATE OF ANALYSIS

Name of the Product : Calcium Carbonate, JP (Light)

Batch No. : Typical COA

CAS No. : 471-34-1

Shelf Life : 5 Years

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	Precipitated Calcium Carbonate occurs as a white, Fine crystalline powder. It is Odorless and Tasteless.	Complies to JP
2.	Solubility	It is practically insoluble in water, but its solubility in water is increased in the presence of Carbon Dioxide. It is practically insoluble in Ethanol (95) and in Diethyl ether.	Complies to JP
3.	Identification	Test A - Dissolve 0.5 g of Precipitated Calcium Carbonate in 10 ml of dilute Hydrochloric Acid, boil, then cool, and neutralize with ammonia TS: The solution responds to the Qualitative Tests for Calcium Salt.	Passes
		Test B - Calcium Carbonate responds to the Qualitative Taste (1) for Carbonate.	Passes
4.	Acid insoluble Substances	NMT 10.0 mg (10 ppm)	7 ppm
5.	Heavy Metals As Pb	NMT 20 ppm	<20.0
6.	Barium	No Green color appears	Passes
7.	Magnesium and alkali metals	The Residue is NMT 5.0 mg (1.0 %)	3 mg (0.60 %)
8.	Arsenic	NMT 5 ppm	<5.0 ppm
10.	Loss on Drying	NMT 1.0 % (1g, 180°C, 4 hours).	0.52 %
11.	Assay	NLT 98.5% of Calcium Carbonate (CaCO ₃).	99.90 %
Remarks : The above Batch is approved as per specification with JP Grade and as per customer specification.			



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TYPICAL CERTIFICATE OF ANALYSIS

Name of the Product : Calcium Carbonate, USP (Heavy)

Batch No. : Typical COA

CAS No. : 471-34-1

Shelf Life : 5 Years

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	Calcium Carbonate, dried at 200°C for 4 hours, contains calcium equivalent to not less than 98.0 percent and not more than 100.5 percent of CaCO ₃ .	Complies to USP
2.	Identification	The addition of acetic acid to it produces effervescence (Presence of Carbonate), and the resulting solution, after boiling, responds to the tests for Calcium.	Passes
3.	Loss on Drying	NMT 2.0 % @ 200°C for 4 hour's.	0.34 %
4.	Acid - insoluble Substances	NMT 0.2 %	0.16 %
5.	Fluoride	NMT 0.005 % (50 ppm)	<0.005 %
6.	Arsenic	NMT 3.0 ppm	<3.0 %
7.	Barium	Passes	Complies with USP
8.	Lead	NMT 3.0 ppm	<3.0 ppm
9.	Iron	NMT 0.1 %	<0.1 %
10.	Mercury	0.5 max. ppm	Passes
11.	Magnesium and Alkali Salts	NMT 1.0 %	Passes
12.	Heavy Metals	NMT 0.002 % (20 ppm)	Passes
13.	Assay	98.0 - 100.5 % of CaCO ₃ .	100.20 %

Remarks : The above Batch is approved as per specification with **USP** Grade and as per customer specification.