

Item Number	CD777E	Lot Number	3GH0005
Item	Dibasic Calcium Phosphate Dihydrate, D50 Max.10um, USP, EP,BP		
CAS Number	7789-77-7		
Molecular Formula	CaHPO ₄ . 2H ₂ O	Molecular Weight	172.09

TEST		SPECIFICATION MIN	MAX	RESULT
GENERAL CHARACTERISTICS				
APPEARANCE		FREE FLOWING WHITE POWDER		COMPLIES
TASTE		TASTELESS		COMPLIES
ODOR		ODORLESS		COMPLIES
SOLUBILITY		IN ETHANOL & WATER-INSOLUBLE IN DILUTE HCl-SOLUBLE IN DILUTE NITRIC ACID-SOLUBLE		COMPLIES
CHEMICAL ANALYSIS				
IDENTIFICATION A,B(USP)		COMPLIES		COMPLIES
ACID-INSOLUBLE SUBSTANCES(USP)			0.2%	<0.1%
CARBONATES(USP)		COMPLIES		COMPLIES
CHLORIDES (Cl) (USP)			0.25%	<0.25%
FLUORIDES(USP)			50PPM	30PPM
SULPHATES(USP)			0.5 %	< 0.5%
ARSENIC(USP)			3.0 PPM	<3.0 PPM
BARIUM(USP)		COMPLIES		COMPLIES
HEAVY METALS(USP)			30PPM	<30PPM
ASSAY(CaHPO ₄ . 2H ₂ O) (USP)		98.0 - 105.0%		100.19%
LOSS ON IGNITION(800 TO 825°C) (USP)		24.5 - 26.5%		25.94%
RESIDUAL SOLVENTS(USP)		COMPLIES		NO RESIDUAL SOLVENTS USED
IDENTIFICATION Test C(as ASSAY) (EP)		98.0 - 105.0%		100.19%
IRON(EP/BP)			400PPM	<400PPM
ADDITIONAL TEST				
LEAD (ICP-MS)			1.0PPM	COMPLIES
CADMIUM (ICP-MS)			1.0PPM	COMPLIES
MERCURY (ICP-MS)			0.1PPM	COMPLIES
PHYSICAL ANALYSIS				
BULK DENSITY	LOOSE	0.50 G/ML		0.57 G/ML
	TAPPED	0.75 G/ML		0.98 G/ML
SIEVE ANALYSIS/ PARTICLE SIZE		D50 Max. 10 µm		COMPLIES
MICROBIOLOGICAL TEST				
TOTAL AEROBIC MICROBIAL COUNT			1000CFU/G	COMPLIES
TOTAL YEAST & MOULD COUNT			100 CFU/G	COMPLIES
ESCHERICHIA COLI			ABSENT/10G	ABSENT/10G
SALMONELLA			ABSENT/10G	ABSENT/10G
PSEUDOMONAS AERUGINOSA			ABSENT/10G	ABSENT/10G
STAPHYLOCOCCUS AUREUS			ABSENT/10G	ABSENT/10G

EXPIRATION DATE		30-APR-2022
MANUFACTURE DATE		01-MAY-2017

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