

DI CALCIUM PHOSPHATE ANHYDROUS BP/EP/USP

SPECIFICATIONS

MOLECULAR FORMULA : CaHPO₄

MOLECULAR WEIGHT :136.1

TESTS

STANDARDS

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| 1. DESCRIPTION | : WHITE CRYSTALLINE POWDER, ODOURLESS, TASTELESS. |
| 2. SOLUBILITY | : PRACTICALLY INSOLUBLE IN ALCOHOL AND SOLUBLE IN DILUTE HYDROCHLORIC ACID AND DILUTE NITRIC ACID. |
| 3. IDENTIFICATION | : TO CONFIRM TEST A :
TEST B : |
| 4. LOSS ON IGNITION | : MINIMUM 6.6 % & MAXIMUM 8.5 % |
| 5. ACID-INSOLUBLE SUBSTANCES | : MAXIMUM 0.1 % |
| 6. CARBONATE | : TO CONFIRM TEST |
| 7. CHLORIDE | : MAXIMUM 330 PPM |
| 8. FLUORIDE | : MAXIMUM 50 PPM |
| 9. SULPHATE | : MAXIMUM 0.5 % |
| 10. ARSENIC | : MAXIMUM 3 PPM |
| 11. BARIUM | : TO CONFIRM TEST |
| 12. HEAVY METALS | : MAXIMUM 30 PPM |
| 13. MONO & TRI CAL. PHOSPHATE | : MIN. 14.0 ML & MAX.15.5 ML 1M HCl REQUIRED. |
| 14. ORG. VOLATILE IMPURITIES | : MEETS REQUIREMENTS |
| 15. IRON | : MAXIMUM 400 PPM |
| 16. ASSAY | : MINIMUM 98 % & MAXIMUM 101 % |
| 17. LEAD | : MAXIMUM 0.3 PPM |
| 18. LOSS ON DRYING | : MAXIMUM 2.0 % (at 150°C) |
| 19. MICROBIAL PURITY | |
| a) TOTAL COMBINED YEAST & MOLD COUNTS. | : MAXIMUM 100 CFU/GM |
| b) E.COLI | : SHOULD BE NEGATIVE |
| c) SALMONELLA | : SHOULD BE NEGATIVE |

PARTICLE SIZE		UNMILLED	D.C. GRADE	MILLED
SIEVE ANALYSIS (Retained on)	30 # BSS (500 MICRON)	0.5 % Max.	0.5 % Max.	95% passing through 200 Mesh
	100 # BSS (150 MICRON)	50 % Min.	60 % Min.	
	200 # BSS (75 MICRON)	---	85 % Min.	
	300 # BSS (53 MICRON)	92 % Min.	95 % Min.	
