

## European Pharmacopoeia

# Calcium Hydrogen Phosphate EP

Calcium Hydrogen Phosphate EP is used for excipient for various types of drugs. Due to the characteristics of neutral pH and low moisture absorption, it hardly affects to deactivation of main drug. It is excellent for the compression formability and contributes to miniaturization of tablet. Granules grade “GS” is excellent for flowability and are used for excipient for direct compression.

**【Grades】** GS

**【Specification】**

Items	European Pharmacopoeia	Typical Analysis
		GS
Appearance	EP	conforms
Identification	EP	conforms
Assay (CaHPO <sub>4</sub> ) (%)	97.5 ~ 102.5	98.6
Acid-insoluble substances (%)	0.2 max.	0.02
Chlorides (%)	0.25 max.	passes test
Sulfates (%)	0.5 max.	passes test
Carbonates	no effervescence	passes test
Fluorides (ppm)	100 max.	passes test
Barium	no turbidity	passes test
Arsenic (ppm)	10 max.	passes test
Iron (ppm)	400 max.	passes test
Loss on ignition (%)	6.6 ~ 8.7	7.1

**【Properties】**

Items	Grades	Typical Analysis
		GS
Bulk Volume	(mL/g)	1.2
Repose Angle	(°)	38
Specific Surface Area (BET)	(m <sup>2</sup> /g)	0.6
Moisture Absorption	(mL/100g)	65
Oil Absorption	(mL/100g)	65
Particle Size	106μm on (%)	1.5
(Ro-Tap method)	45μm pass (%)	52.0