



**Sino-American  
Pigment Systems, Inc.**  
QUALITY RAW MATERIALS ■ ENVIRONMENTAL TECHNOLOGY

**Product Specification  
Calcium Citrate Powder USP Grade**

<b><u>ATTRIBUTES</u></b>	<b>Specification</b>	<b>Units</b>	<b>Test Methods</b>
CALCIUM	20 - 22	%	ICPMS
CALCIUM CITRATE	97.5 – 100.5	%	USP 26
OVI's	NONE DETECTED	N/D	USP 26
LOSS ON DRYING	10.0 – 13.3	%	USP 26
HEAVY METALS	MAX 20	PPM	USP 26
LEAD	MAX 0.25	PPM	ICPMS
ARSENIC	MAX 1.0	PPM	USP 26
FLUORIDE	MAX 30	PPM	USP 26
ACID INSOLUBLE	MAX 0.2	%	USP 26

**MICROBIAL SPECIFICATIONS**

TOTAL PLATE COUNT	MAX 1000	cfu/gm	AOAC
TOTAL COLIFORM	MAX 100	cfu/gm	AOAC
YEAST AND MOLDS	MAX 100	cfu/gm	AOAC
CP STAPH	NEGATIVE	NEG	AOAC
E. COLI	NEGATIVE	NEG	AOAC
SALMONELLA	NEGATIVE	NEG	AOAC

**PHYSICAL SPECIFICATIONS**

**PARTICLE SIZE**

THROUGH #100 MESH	MIN 10.0	%	USP 26
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**BULK DENSITY**

LOOSE	0.5 – 0.7	g/cc	USP 26
TAPPED	MIN 0.7	g/cc	USP 26

**APPEARANCE**

WHITE GRANULAR POWDER	TO PASS	VISUAL
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**FOREIGN MATTER**

ABSENT	TO PASS	VISUAL
CHARACTERISTIC	TO PASS	OLFACTORY
CHARACTERISTIC	TO PASS	GUSTATORY

**ODOR**

**TASTE**

**SHELF LIFE**

MIN 2 YERS	TO PASS	ICP & USP 26
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**PACKAGING:**

25 KG PAPER BAG, PALLETIZED AND SHRINK WRAPPED.

*THIS PRODUCT SHOULD BE STORED SEALED IN A COOL AND DRY PLACE.*

DS/o/cal citrate-pwd.52004