

A CALCIUM FOR ALL REASONS

Albion® Wants to Make Your Calcium Fortification

As Easy as 1, 2, 3

1

DimaCal®



2

Calcium Citrate Malate



Minerals • Science • Chelates™


ALBION®
HUMAN NUTRITION

Almost daily, nutrition researchers are finding that calcium deficiencies affect the human body far beyond skeletal needs. With new knowledge continually emerging, it is not surprising that calcium is becoming increasingly important in food fortification. Today, a wide variety of food and beverages are fortified with calcium but it is doubtful that any one calcium source can suit the needs of all applications. Solubility and organoleptic factors make certain calcium compounds more suitable for one application over another.

To address this need, Albion® has developed a line of calcium compounds with the chemical, physical, and sensory properties that will fit your fortification requirements.

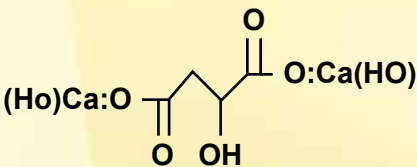


1 DimaCal® (dicalcium malate)

This unique form of calcium is patented for composition and method of administration. As the name implies, DimaCal is structured with two moles of calcium attached to one mole of malic acid. DimaCal is Generally Regarded As Safe (GRAS) under USFDA self-affirmation guidelines.

Research has shown this calcium form to be well absorbed and well tolerated with excellent performance in solid dosage formulations such as tablets and capsules. When used to fortify baked goods such as bread and cookies, DimaCal has demonstrated good organoleptic properties at differing levels. The positive sensory qualities of DimaCal is also apparent in fruit juices, butter, margarine, and yogurt.

While not water soluble, DimaCal is soluble at more acidic pH levels. With a pH of 11.5 to 12.5, DimaCal is a white to off-white fine powder with little or no odor. Like all Albion Human Nutrition products, DimaCal is Kosher certified, vegetarian, hypoallergenic, and BSE free.



DimaCal Specifications	
Calcium:	Not less than 29%
Malic Acid:	64%
Moisture:	Not more than 6%
Item Numbers:	4050 (powder)
	4049 (granular)
Pack Size:	25 kg

2 Calcium Citrate Malate (CCM)

This multi-patented form of calcium is the result of a simultaneous reaction with calcium, citric acid, and malic acid at a molar ratio of 6:2:3 in a highly soluble complex. At 1% solution, CCM has a pH of 5 to 8. This unique patented ratio of calcium: citrate: malate is highly absorbable and well tolerated.

CCM is equally effective in solid dosage forms such as tablets, chewables, and effervescent. Good organoleptic properties make CCM particularly well suited as a fortificant in fruit juices, bottled water and other beverages. CCM is Kosher certified, vegetarian, hypoallergenic, and BSE free.

Calcium Citrate Malate Specifications	
Calcium:	23.67% (Guaranteed analysis: Not less than 20%)
Citric Acid:	37.28%
Malic Acid:	39.05%
Item Numbers:	4055 (powder)
	4056 (granular)
Pack Size:	25 kg



3 Calci-K®

This calcium/potassium/phosphorus complex is specifically designed to fortify liquid food products. It is a readily absorbable form of calcium that maintains complete dispersion at a pH between 3.5 and 8.0 when added to liquids. No additional suspending agents are necessary to keep this ingredient dispersed.

Calci-K is soluble in many forms of beverage and is especially suitable for fortification of dairy products, imitation dairy products (powder or liquid), soy based products, infant foods, butter, margarine, and other products of neutral pH. At an additive level of 300 mg of elemental calcium per 8 ounce serving, there is no change in taste, odor, color, or consistency. This patented ingredient is a white, free flowing, non-dusting powder. Calci-K is Kosher certified, vegetarian, hypoallergenic, and BSE free.

Calci-K Specifications	
Calcium:	18% (min)
Potassium:	16% (min)
Phosphorus:	9% (min)
Moisture:	2% (max)
pH:	6.8 in a 1% aqueous solution
Item Number:	4500
Pack Size:	25 kg





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Minerals ♦ Science ♦ Chelates

For more detailed information please
contact your Albion sales representative.

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