

BUFFERMIN® PROTEINATES

Chelated Mineral Feed Supplements

Organic Minerals

Buffermin Proteinates is a line of organic chelated mineral products designed as nutritional animal feed supplements that are safe to use and more effective than inorganic minerals or synthetic chelates. For example, dairy cows provide more milk output when chelated minerals (or mineral proteinates) are fed than when inorganic sulfate additives are used.

Buffermin Proteinates contain less insoluble protein than other chelated products. Moreover, **Buffermin Proteinates** have a low average molecular weight that is more available for uptake and translocation in the animal.

As with all our products, the **Buffermin Proteinates** have a relatively low heavy metal content which minimizes the contamination risk to your livestock. In addition, low heavy metal intake means low heavy metal manure which is better for the environment.



Product Profile:

Form: Powder

Function: Corrects and prevents mineral deficiencies

Shelf life: 3 years

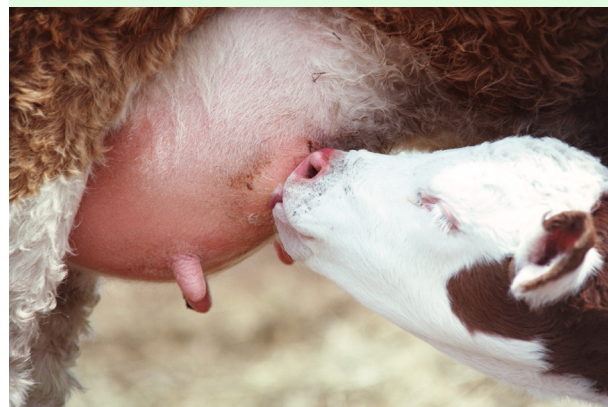


Advantages:

- High bioavailability
- Non-synthetic
- Organic minerals
- Easily added into current diet
- Stable in feed

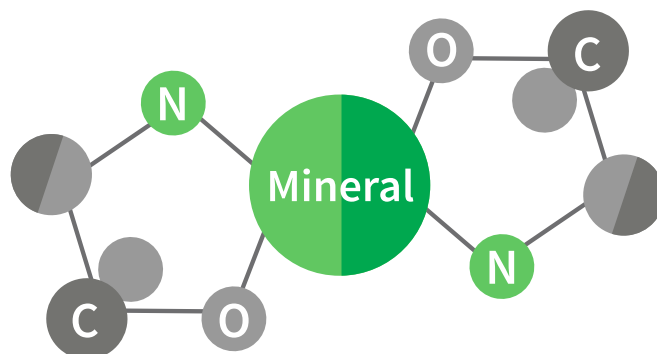
Key Features:

- Corrects and prevents mineral deficiencies
- Addition of amino acids and protein to diet
- Benefits metabolism
- Helps with proper development



Benefits from Chelation Technology

The **Buffermin Proteinates** is a line of chelated trace minerals for animals. Metal proteinates are defined as the product resulting from the chelation of a soluble metal salt with amino acids and/or partially hydrolyzed protein (AAFCO 2018). Chelation is an encapsulation process that uses the amino acid or protein to make a shell around the mineral. This protective shell creates a molecule with a neutral charge that resists chemical interactions so that the mineral can pass through the body until well into the digestive tract. In this way, the animal's stomach lining isn't clogged with immovable trace minerals that interfere with absorption.



The Protected Mineral in a Chelate

Buffermin Proteinates Products:

Buffermin Proteinates minerals include: calcium, cobalt, copper, iron, magnesium, manganese, selenium, and zinc.

	Ca	Cr	Co	Cu	Fe	Mg	Mn	Se	Zn
Buffermin® Calcium Proteinate	15%								
Buffermin® Chromium Proteinate		2%							
Buffermin® Cobalt Proteinate			10%						
Buffermin® Copper Proteinate				15%					
Buffermin® Iron Proteinate					15%				
Buffermin® Magnesium Proteinate						10%			
Buffermin® Manganese Proteinate							15%		
Buffermin® Selenium Proteinate								2%	
Buffermin® Zinc Proteinate									15%

Custom formulations are available upon request.