

# Bovine IgG

## PureStart™ Colostrum

**OMRI-LISTED FOR USE  
IN ORGANIC HERDS**

### OMRI LISTED

- ▲ PureStart™ is the only USDA APHIS licensed veterinary biologic bovine IgG colostrum product on the market that is OMRI-listed for organic use. Product Code #skt-7351. See [www.omri.org](http://www.omri.org) for more information on OMRI-listed products.

### WHOLE BOVINE COLOSTRUM

- ▲ PureStart™ is made only from whole, premium quality bovine colostrum. It is an excellent source of IgG, colostrum fat, and nutrients needed for a healthy, strong start after birth.
- ▲ PureStart™ is not a manufactured formula based on blood serum, whey, eggs, vegetable fats or other ingredients not naturally found in colostrum.

### HIGH IMMUNITY

- ▲ IgG molecules are readily absorbed for maximum immune protection.
- ▲ > 85% IgG1 – The antibody most effective in providing local immunity and to reduce disease associated with failure of passive transfer.

### HIGH IN COLOSTRAL FAT

- ▲ An important energy source required by calves immediately after birth, which assists with thermoregulation.

### SAFE AND EFFECTIVE

- ▲ USDA Veterinary Biologics licensed for use as a total replacement for maternal colostrum in calves.
- ▲ Heat-treated to effectively eradicate any pathogens that could cause diseases such as Tuberculosis, Brucellosis, Leukosis, Paratuberculosis (causing Johne's disease), Salmonellosis, E. coli infection and others.

### CONVENIENT

- ▲ Easily mixes in under 15 seconds
- ▲ 3-year shelf life.



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## PureStart™ Colostrum



### INDICATIONS

- ▲ PureStart™ not only provides calves with the immunity they need, it's also very high in colostrum fat and is intended for calves requiring extra energy to get up, suckle, stay warm and stay alive.
- ▲ May be used to supplement or completely replace maternal colostrum.
- ▲ No blood, whey, egg or other ingredients not naturally found in maternal colostrum.
- ▲ Excellent source of IgG (over 85% in the form of IgG1), colostrum fat, and nutrients needed to establish a healthy start and maximize immunity.

## KEYS TO SUCCESSFUL COLOSTRUM MANAGEMENT

### QUICKLY

- ▲ 1st feeding as soon as possible after birth, ideally within 2 hours.
  - ▲ 2nd feeding within the next 6 - 8 hours to assure 2 feedings within 12 - 18 hours.
- Calves have an immature immune system and limited energy reserves at birth. Colostrum gives them immunity and energy to adapt to the environment. The sooner after birth the bottle is offered, the more likely they are to suckle.*

### QUALITY

- ▲ Feed excellent quality colostrum containing minimally 50 g IgG / L.
- ▲ Test quality using an optical or digital Brix % refractometer with a 0-32% scale.

Maternal colostrum quality (% Brix)	Replace or Enrich?
< 22% <b>POOR</b>	Complete replacement
22-24% <b>FAIR</b>	Enrich (ask your Alta rep for an enrichment chart)
25-30% <b>GOOD</b>	
> 30% <b>EXCELLENT</b>	No need to enrich maternal colostrum

### QUANTITY

- ▲ Adequate: 2-3 L | 150 g of IgG
- ▲ Excellent: 3-4 L | 200 - 300 g of IgG

Feed 10% of the calf's body weight as a 1st feeding (40 kg calf = 4L).

*If tube fed, a minimal volume of 3L should be fed. With tubing, colostrum goes in the rumen first and not directly into the abomasum as when fed by bottle. The rumen has a capacity of 2 liters and an extra liter allows for overflow into the abomasum to start passive transfer of antibodies into the bloodstream.*

To completely replace maternal colostrum with PureStart			
Amount of Powder	Amount IgG Fed	Amount of Water	Avg Calf Serum IgG
2 bags (1400 g)	200 g	10 cups	14.5 g/L

INGREDIENTS	
Bovine Colostrum	

TYPICAL ANALYSIS (PER BAG)	
Bovine IgG	14.2% (100 g)
Crude Protein	43%
Crude Fat	24%

IMPORTANT PRODUCT FACTS (700g BAG)	
Product code	X0097
Quantity Per Bag	700 grams (25 oz)
Quantity Per Case	15 bags
Quantity Per Pallet	45 cases or 675 bags

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