

# LAND O LAKES® Bovine IgG Colostrum Replacer

Bovine IgG to replace or supplement maternal colostrum as an aid in the treatment of failure of passive transfer

- ✓ Made from nutrient-rich whole bovine colostrum
- ✓ Provides a newborn calf with important antibodies, including immunoglobulin G (IgG), to help develop her immune system



Available in a single dose pouch or a 36 dose pail



## Early influence lasts a lifetime

A calf's immune system is naïve at birth; she requires high-quality colostrum within the first few hours of life to achieve successful passive transfer of immunity through absorption of IgG across the intestinal wall and into circulation.

Establishing passive transfer of immunity may affect a calf's immunological and cellular development, potentially influencing her growth, health and performance in both the short- and long-term.<sup>1</sup>

## LAND O LAKES® Bovine IgG Colostrum Replacer

Features	Benefits
Licensed and tested by the USDA	Ensures every batch meets the USDA's standards for use as a treatment for failure of passive transfer of immunity.
Made of whole bovine colostrum with nothing added or removed	Provides calves with the immune support, nutrients and growth factors found in maternal colostrum.
<ul style="list-style-type: none"> <li>▶ Contains high levels of IgG1</li> <li>▶ Contains high levels of natural colostrum fat</li> <li>▶ Includes a large variety of growth factors and hormones</li> </ul>	<ul style="list-style-type: none"> <li>▶ Helps address enteric and respiratory challenges.</li> <li>▶ Provides energy and assists with body temperature regulation, ultimately helping to optimize calf growth and development.</li> <li>▶ Assists in the development of tissues and organs.</li> </ul>
Provides a high (>20%) concentration of IgG per dose	≥100 g IgG delivered in 470 g of powder or ≥200 g IgG in 940 g of powder.

## Feeding considerations:



Test maternal colostrum with a Brix refractometer to determine quality.



If the Brix refractometer reading is:

- **Below 18%** - Discard maternal colostrum and use LAND O LAKES® Bovine IgG Colostrum Replacer.
- **Between 18-22%** - Use LAND O LAKES® Bovine IgG Colostrum Replacer in conjunction with maternal colostrum.
- **22% or greater** - On-farm maternal colostrum may be used if at least 1 gallon is available per calf.<sup>2</sup>



Feed calves the first serving of colostrum within 1 hour of birth and a second serving of colostrum within 8-12 hours of birth.

\*Always follow label directions

## Mixing instructions:

### To replace maternal colostrum

LAND O LAKES® Bovine IgG Colostrum Replacer powder to add (always weigh for accuracy)	Amount IgG fed	Amount water	Final volume
1.04 lbs.	100	4 cups	1.5 quarts*
1.55 lbs.	150	6 cups	2.2 quarts
2.07 lbs.	200	8 cups	3.0 quarts

\*Use a nipple bottle where final volume is <2.2 quarts

### To supplement maternal colostrum

(goal >200 g IgG with intake of 1 gallon)

Brix reading	On-farm maternal colostrum (quarts) to feed	Water (quarts) to add	LAND O LAKES® Bovine IgG Colostrum Replacer dry powder lbs. (oz. equiv) to add (always weigh for accuracy)
< 18	Discard and feed 2 doses (2.07 lbs) of LAND O LAKES® Bovine IgG Colostrum Replacer ONLY		
18	0.5	2.8	1.9 lbs. (31.1 oz.)
18.5	0.9	2.5	1.7 lbs. (27.9 oz.)
19	1.2	2.2	1.5 lbs. (24.7 oz.)
19.5	1.6	1.9	1.3 lbs. (21.5 oz.)
20	1.9	1.7	1.1 lbs. (18.3 oz.)
20.5	2.3	1.4	0.9 lbs. (15.1 oz.)
21	2.7	1.1	0.7 lbs. (11.9 oz.)
21.5	3.0	0.8	0.5 lbs. (8.7 oz.)
22	3.4	0.5	0.3 lbs. (5.5 oz.)
22.5	3.7	0.2	0.1 lbs. (2.3 oz.)
> 23	Only add LAND O LAKES® Bovine IgG Colostrum Replacer if reason to question colostrum quality or if less than 1 gallon of maternal colostrum is available to feed.		

**Let's talk about a calf program to meet your farm goals.**  
**lolmilkreplacer.com or (800) 618-6455**

<sup>1</sup> Van Amburgh, M.E., F. Soberon, J. Karzsos, and R.W. Everett. 2011. Taking the long view: treat them nice as babies and they will be better adults. Proc. 2011 Western Dairy Management Conference.

<sup>2</sup> Dairy Calf and Heifer Association Gold Standards. Second Edition. 2016