

ADVICE SHEET

Protection OstruMilk
Refractometer Antibodies

LAMBS Colostrum







CARACTERISTICS

The real colostrum is milk from the **first milking**, it is rich in antibodies & protects the lamb against neonatal diseases, until its own system is fully functional. Colostrum is also important as a primary source of **nutriments**.

It is essential for the **immunisation of lambs** against post-partum infections.

ROLES

LAXATIVE: EVACUATION OF MECONIUM

ALLOWS THE YOUNG ANIMAL'S TEMPERATURE TO BE REGULATED PASSIVE IMMUNE PROTECTION PROTECTION OF THE DIGESTIVE TRACT

NEEDS

Distribution at the earliest (immediately after birth), sufficient quantity of quality colostrum is essential for the life insurance of young animals.

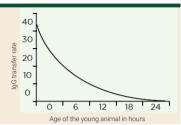


6	Within the first 6 hours	First drench: 10-15% of bodyweight
24	Within the first 24 hours	Supply: 10-15% of bodyweight in three drenches

First early drench: not later than 6 hours after birth, sufficient quantity of colostrum: 200mL/kg of bodyweight. At least half of which in the first 6 hours,

Careful monitoring:
Lift lambs by the belly to evaluate the filling level of the abomasum in the first 6 hours.

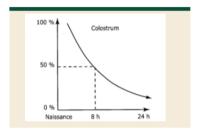




Graph adapted from Blomquist, 2009.

The ability of the small intestine of the lamb to absorb immunoglobulins decreases rapidly during the first hours after birth.

If a lamb has not received any colostrum within 12 hours of birth, it is unlikely that he will be able to develop enough antibodies later to develop immunity.



The colostrum contained in the "first milk" is the richest in antibodies and nutrients. These amounts decrease in the colostrum produced later by the mother.

QUALITY

The quality of colostrum is measured in g of type G immunoglobulins (IgG).



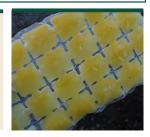
IgG quantity for ovines (g/L)	QUALITY
0-25	VERY BAD
25-50	BAD
50-100	GOOD
GREATER THAN 100	EXCELLENT

Excellent quality colostrum can be frozen.

Thawing is done in a water bath or at room temperature.

NEVER IN THE MICROWAVE

If the colostrum is of poor quality, do not hesitate to supplement or replace with a colostrum-replacement.



MEASURE

Two tools can be used to measure the quality of colostrum: the colostrum scale and the refractometer.

The colostrum scale is calibrated for bovine colostrum. Density is different for goat or sheep milk

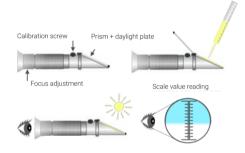




a refractometer

REFRACTOMETER

- Put a few drops on the plate (prism).
- Close and look through the eveniece.
- Read the number between light and dark on the left
- · Clean and dry thoroughly after each use.





	Brix	Actions
VERY BAD	< 15 %	Take colostrum from another ewe
BAD	15-24 %	500 ml + 1/2 bag of colostrum-replacement
GOOD	25-29%	500 ml
EXCELLENT	> 30%	350 ml

CONSEQUENCES of a bad distribution of colostrum (quantity, quality, delay)

- risk of mortality x 5 - risk of disease x 8 - mediocre weaning weight: inferior ADG

Areas for improvement to study in the event of bad colostrum:

- · · Ratio of dry up cows (in quality and quantity, minerals included)
- Control of parasitism (especially fluke)
 First milking as early as possible (possibly within a few hours after calving)