

SmartFeed[®]
Smart Growth



Celtilait

Milk replacer

Distributed by



The successful dairy cow

is grown up from birth

www.celtilait.com



Cetilait is the brand name of a premium range of milk replacers produced by Laita, a French dairy cooperative located in Brittany, in the North-Western corner of France.

Laita is also heavily involved in the French veal industry, assembling over 33,000 calves annually.

Cetilait has dedicated over 40 years of commitment and research to its customers enabling them to improve the performance and profitability of their farms.

Who are Laita?

Laita is a dairy cooperative in North-Western France with Headquarters in Brest.

3 020 employees



1.4 billion euros turnover



66 % in France
22 % in the European Union
12 % across the globe

7 industrial sites



1.5 billion litres
of milk collected from
2 660 dairy farms

Clients in over
110 countries



Cetilait: The Experts in High Performance Calf Rearing

A world **leader** in the **early life care of young calves** and the **production of Veal**.

33 000

veal calves produced in the Cetilait
integrated veal calf production (2021)

+

90 000

veal calves produced in France based
on the Cetilait calf feeding programme

INNOVATION

▷ Establish Animal Requirements

Research & Development

#1

Characterize animal needs:

- Determine the rate of ingestion and growth
- Control consumption
- Optimize ingestion capacity
- Improve appetite
- Manage feed efficiency
- Secure intestinal integrity
- Define feed requirements

#2

Meet Animal Requirements: Ingredients, Formulation, Feed

- Ensure the quality of raw materials
- Determine feed conversion efficiency
- Ensure manufacturing quality control

#3

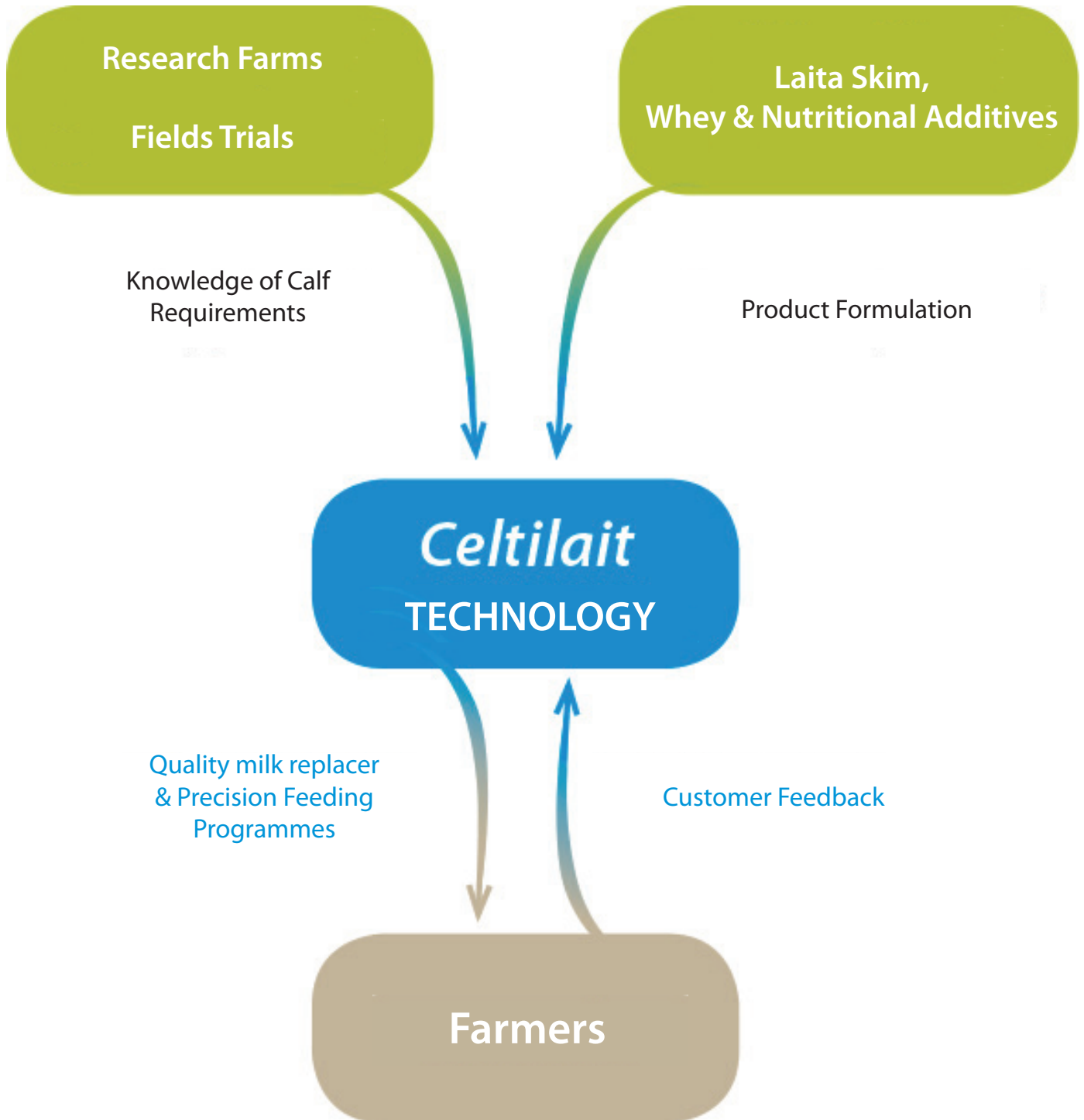
Ensure feed quality and safety



The Celtaït nutrition team is constantly researching new ways to improve their milk replacers and refining their recommended feeding programmes to continuously improve how these products are used by farmers.

This research is carried out by collaboration with French and International research institutes and this is work verified by recourse to results from research and integrated commercial farm trials.

Technology and Knowledge



Manufacturing expertise

Celtilait Dairy Expertise ensures:

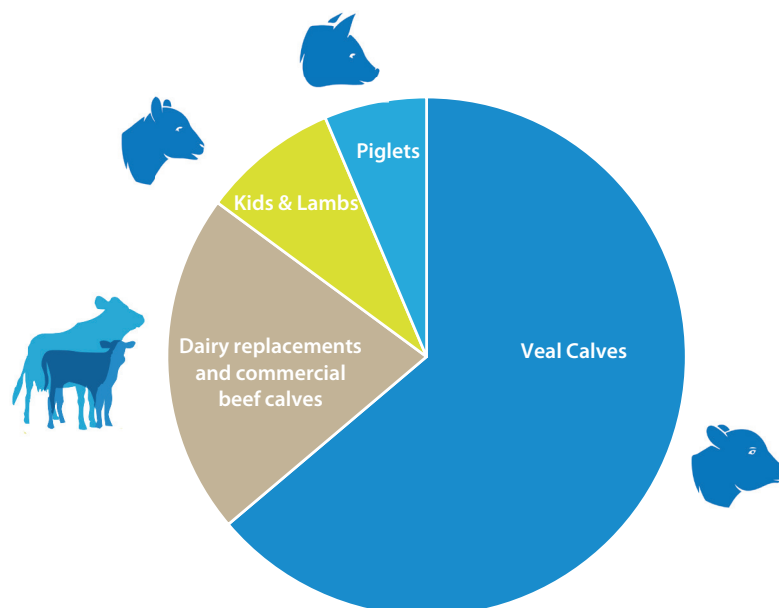
- Primary Access to Premium Quality Dairy Ingredients
- Precision Process Control

The entire process is fully

certified by French and International Accreditation Bodies



Feed trade activity (2021)



Celtilait Innovation



2013

Launch SmartFeed technology, smart growth:



SmartFeed[®]

Smart Growth

Calf rearing strategy based on supplying the specific nutritional requirements of Dairy replacement heifers to maximize frame and muscle growth otherwise known as skeletal ossification.

Heifer Rearing Strategy

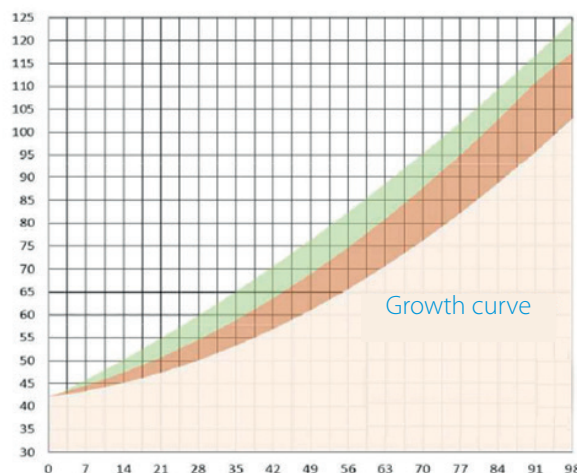
The successful dairy cow is grown from birth

Accelerated pre-weaning growth produces more productive and longer lasting cows

SmartFeed Technology Research Facts, 2013

- The most profitable heifer calves down at 24 months or less (Institut de l'Élevage, 2012 Cogedis, 2013).
- Growth must be rapid and continuous from birth, so that calves reach double their birthweight at 56 days old (Van Amburgh & Soberon, 2013).
- Pre-weaning growth is critical: A study carried out in the USA by Soberon allocated 22% in the difference between first lactation cows to differences in relative pre-weaning growth rates.

Targeted growth curve



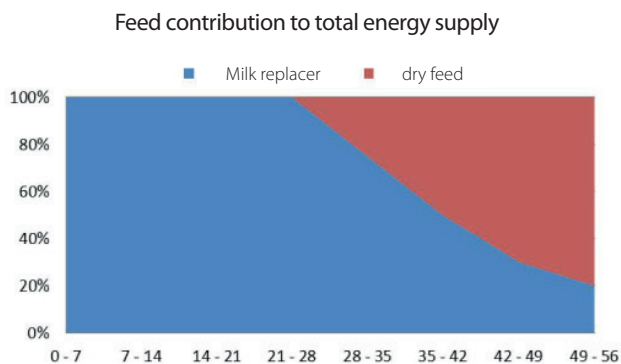
From Celtaït Research

Critical Pre-Weaning Nutritional Requirements

- Energy: Requirements for rapid early growth must be met in full using the right blend of fats, oils and sugars
- Protein: Protein supplied must be ideal protein capable of supplying all the essential amino acids required for rapid early frame growth

Pre-Weaning Feeding Strategy

- Newborn calves have no rumen function. But this can be encouraged by the introduction of solid feed and good rumen function will be established 30 days after introducing palatable calf starter (Heinrichs, 2005).
- Milk or milk replacer therefore supplies nearly all of the calf's requirements for the first month. From then on, the growing calf is able to supplement the nutrients supplied by milk, and achieving a rapid increase in dry feed consumption at this stage will facilitate the transition from milk dependency to solid feed. So that weaning can take place without any growth checks (Celtlait Bibliography Summary, 2013).



Heifer growth depends on:

- Milk replacer during the 1st month
- Milk replacer and dry feed during the 2nd month

SmartFeed® : Optimal and Timely Feed Response

- Meet the Net Energy and PDI Requirements
- Respect the relationship between PDI and Net Energy
- Surplus energy (oil): the calf will get too fat
- Energy Deficit: The calf will catabolize protein and growth will suffer
- Optimize Amino Acid content: The Ideal Protein
- Supply Sufficient Critical Fatty Acids (Omega 3 and 6)

SmartFeed® : a Premium Quality Range of Milk Replacers

- Contains top quality dairy and vegetable proteins,
- Very consistent and safe products including acidification and lactic fermentation agents.

Advice:

- It is not possible to meet the calf's growing requirements by feeding more milk, so the sensible way to achieve this is by concentrating the nutrients or by increasing the frequency of feeds by the use of automatic feeders.
- Introduce a palatable starter feed after 4-7 days and keep this fresh. As feed intakes increase in the second month, daily milk allocation can be gradually reduced to facilitate trouble free weaning.
- Depending on the development of your calves, the transition to weaning can take place between 8-10 weeks when the entire energy requirement (6500 Kcal of ME) will be supplied by solid feed.

Range of Milk Replacer



FIRST MFN



Optimize your results by choosing a new concept of milk replacer

FIRST MFN

Premium Quality Skim Based Milk Replacer
for Dairy Replacements and High Potential Beef calves



PERFORMANCE

A precisely formulated product to supply the nutrients required for rapid early growth

DAIRY PRODUCTS

Over 70% of dairy products (skimmed milk powder, whey & whey permeate)

PRICE

An optimised feed at a competitive price

FIRST MFN

Designed for automatic feeder

FiRST MFN

Premium Quality Skim Based Milk Replacer
for Dairy Replacements and High Potential Beef calves

TECHNICAL CHARACTERISTICS

Composition

Skimmed milk, Whey, Palm oil, Buttermilk, Wheat protein, Coco oil, Wheat flour, Starch(Wheat), Soybean oil, Sodium Chloride, Rapeseed oil, Sodium bicarbonate, Magnesium sulphate, Dicalcium phosphate, Magnesium hydroxide, Calcium carbonate, Milk fat.

Contains only fats of vegetable and dairy origin

Analytical constituents (%)

Crude protein	22.0
Crude fats	19.0
Crude fibre	0.1
Crude ash	6.5
Calcium	0.9
Phosphorus	0.6
Sodium	0.4

Additives (per kg)

Antioxidants	
E321 B.H.T.	20 mg
Vitamines	
3a672a Vitamin A	25 000 UI
3a671 Vitamin D3	10 000 UI
3a700 Vit. E (all-rac-alpha-tocopheryl acetate)	500 mg
3a710 Vitamin K3	5 mg
3a821 Vitamin B1	10 mg
3a300 Vitamin C (L-Acide ascorbique)	150 mg
Trace-element	
3b103 Iron (Ferrous sulphate, monohydrate)	100 mg
3b405 Copper (Cupric sulphate, pentahydrate)	10 mg
3b603 Zinc (Zinc oxide)	120 mg
3b503 Manganese (manganese sulfate, monohydrate)	65 mg
3b202 Iodine (calcium iodate, anhydrous)	0.1 mg
3b801 Selenium (sodium selenite)	0.2 mg
Gut flora stabilisers	
4b1708 Enterococcus Faecium NCIMB 11181	1,5*10 ⁹ CFU

The ingredient composition declared is subject to change subject to raw material availability.

FEEDING INSTRUCTIONS

- Rate : 145 g of powder per litre of reconstituted milk.
- Warm half of the required water at 45-50° C.
- Add **Celtilait FIRST** and mix.
- Make up to the required volume with warm water.
- Feed to calves at 38 - 40° C.

HOUSEKEEPING TIPS

- Keep feeding equipment clean.
- Clean all feeding equipment thoroughly after each use.
- Turn over buckets before stacking them.
- Store bags in a dry place.
- Close bags after each feeding.
- Make sure to feed at the correct temperature (38-40°C).
- Make sure fresh clean water is available at all times.
- Regular quality certification of your water supply is recommended.

INDICATIVE FEEDING PROGRAMME

2 meals per day (concentration 145 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg	
6 - 7 th day	2,5 litres	2	0,360 kg	
2 nd week	3,0 litres	2	0,430 kg	
3 rd to 6 th week	3,5 litres	2	0,500 kg	
7 th week	2,5 litres	2	0,360 kg	
8 th week	2,5 litres	1	0,360 kg	
9 th week	2,5 litres	1	0,360 kg	
10 th week	2,5 litres	1	0,360 kg	
11 th week	Weaning when the calf consumes at least 2 kg dry feed / day			

1 meal per day from the 3rd week (concentration 200 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg	
6 - 7 th day	2,5 litres	2	0,360 kg	
2 nd week	3,0 litres	2	0,430 kg	
3 rd week	4,0 litres	1	0,800 kg	
4 th to 6 th week	4,5 litres	1	0,900 kg	
7 th week	3,5 litres	1	0,700 kg	
8 th week	2,5 litres	1	0,500 kg	
9 th week	2,0 litres	1	0,400 kg	
10 th week	2,0 litres	1	0,400 kg	
11 th week	Weaning when the calf consumes at least 2 kg dry feed / day			



Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostrometer, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

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FT SmartFeed FIRST GB MFN-106-20230207



OUEST ELEVAGE - 380 Lesgall an Taro - CS 60068 - 29260 Ploudaniel - FRANCE
Tél. (33) 02 98 36 21 80 - <http://www.celtilait.com> - e-mail : celtilait@celtilait.com

Heifer Max



The successful dairy cow is grown from birth

Heifer Max

*Premium Quality High Protein
High Oil Milk Replacer including skim for dairy heifers*

Formulation Concept

- Precision Whey based formulation for rapid early frame growth.
- Well balanced formulation containing high levels of energy and quality dairy protein.
- Well stocked with amino acids, fat and lactose.
- Suitable for all milk feeding systems including automatic feeders.
- Competitively priced relative to similar whey based products in the market.

Produced
by a
Dairy Processor

100%
soluble proteins,
essentially
from dairy origin

Fortified
with vitamins and
trace elements
to meet all
requirements

Much higher
level of fats
incorporated
by spray drying
process for better
digestibility

Contains
"secured nucleus"
organic acids
and plant extracts
to help prevent digestive
upsets and resist parasitic
attack (a big help
in group rearing)

Dissolves readily
in warm water
at 45/50°C

Heifer Max

Heifer Max

Premium Quality High Protein
High Oil Milk Replacer including skim for dairy heifers

TECHNICAL CHARACTERISTICS

Composition

Whey, Whey protein concentrate, Palm oil, Wheat protein, Buttermilk, Coco oil, Skimmed milk, Starch(Wheat), Casein, Sodium Chloride, Dextrose, Yeasts products (MOS), Rapeseed oil, Magnesium sulphate, Dicalcium phosphate, Magnesium hydroxide, Calcium carbonate, Milk fat.

Contains only fats of vegetable and dairy origin

Analytical constituents (%)

Crude protein	26.0
Crude oils and fats	22.0
Crude ash	6.6
Crude fiber	0.0
Calcium	0.8
Sodium	0.8
Phosphorus	0.5

Additives (per kg)

Antioxidants	
E321 B.H.T.	38 mg
Vitamines	
3a672a Vitamin A	25 000 UI
3a671 Vitamin D3	10 000 UI
3a700 Vitamin E (all-rac-alpha-tocopheryl acetate)	500 UI
3a710 Vitamin K3	5 mg
3a821 Vitamin B1	10 mg
3a300 Vitamin C (L-Acide ascorbique)	150 mg
Trace-element	
3b103 Iron (monohydrate ferrous sulphate)	100 mg
3b405 Copper (Copper (II) sulphate, pentahydrate)	8 mg
3b603 Zinc (Zinc oxide)	120 mg
3b503 Manganese (monohydrate manganese sulfate)	4 mg
3b202 Iodine (calcium iodate, anhydrous)	0.2 mg
3b801 Selenium (sodium selenite)	0.2 mg
Gut flora stabilisers	
4b1708 Enterococcus Faecium NCIMB 11181	1,5*10 ⁹ CFU

The ingredient composition declared is subject to change subject to raw material availability.

FEEDING INSTRUCTIONS

- Rate : 145 g of powder per litre of reconstituted milk.
- Warm half of the required water at 45-50° C.
- Add **Heifer Max** and mix.
- Make up to the required volume with warm water.
- Feed to calves at 38 - 40° C.

HOUSEKEEPING TIPS

- Keep feeding equipment clean.
- Clean all feeding equipment thoroughly after each use.
- Turn over buckets before stacking them.
- Store bags in a dry place.
- Close bags after each feeding.
- Make sure to feed at the correct temperature (38-40°C).
- Make sure fresh clean water is available at all times.
- Regular quality certification of your water supply is recommended.

INDICATIVE FEEDING PROGRAMME

2 meals per day (concentration 145 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg	
6 - 7 th day	2,5 litres	2	0,360 kg	
2 nd week	3,0 litres	2	0,430 kg	
3 rd to 6 th week	3,5 litres	2	0,500 kg	
7 th week	2,5 litres	2	0,360 kg	
8 th week	2,5 litres	1	0,360 kg	
9 th week	2,5 litres	1	0,360 kg	
10 th week	2,5 litres	1	0,360 kg	
11 th week	Weaning when the calf consumes at least 2 kg dry feed / day			

1 meal per day from the 3rd week (concentration 200 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg	
6 - 7 th day	2,5 litres	2	0,360 kg	
2 nd week	3,0 litres	2	0,430 kg	
3 rd week	4,0 litres	1	0,800 kg	
4 th to 6 th week	4,5 litres	1	0,900 kg	
7 th week	3,5 litres	1	0,700 kg	
8 th week	2,5 litres	1	0,500 kg	
9 th week	2,0 litres	1	0,400 kg	
10 th week	2,0 litres	1	0,400 kg	
11 th week	Weaning when the calf consumes at least 2 kg dry feed / day			



Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostrum-meter, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

Distributed by :



FT Heifer Max GB MFN-109-20230207



SmartFeed®
La croissance intelligente

Celtilait
Aliments d'allaitement



The successful dairy cow is built from birth
Optimize your results by choosing a new
concept of milk replacer

101 BT SmartFeed®

Premium Quality Whey Based Milk Replacer
for Dairy Replacements and High Potential Beef Calves

SmartFeed concept

- Precision Whey based formulation for rapid early frame growth
- Well balanced formulation containing high levels of energy and quality dairy protein
- Well stocked with amino acids, fat and lactose
- Suitable for all milk feeding systems including automatic feeders
- Competitively priced relative to similar whey-based products in the market

101 BT

Produced
by a dairy processor

High quality
dairy proteins

Fortified
with vitamins and
trace elements
to meet all
requirements

Fats are
incorporated
by Spray-drying
process for a better
digestibility

Contains a
"secured nucleus":
organic acids and
plant extracts to
prevent digestive
troubles

Dissolves easily in
warm water at
45/50°C

FT SmartFeed 101BT GB-20221223



SmartFeed®

La croissance intelligente

Celtlait
Aliments d'allaitement

Designed for automatic feeders

101 BT

Premium Quality Whey Based Milk Replacer
for Dairy Replacements and High Potential Beef Calves

TECHNICAL CHARACTERISTICS

Composition

Whey, Palm oil, Protein concentrate(Soya), Wheat protein, Coco oil, Skimmed milk, Starch(Wheat), Rapeseed oil, Magnesium sulphate, Sorbitol, Magnesium hydroxide, Calcium carbonate.

Contains only fats of vegetable and dairy origin

Analytical constituents (%)

Crude protein.....	24.0
Crude fats.....	19.0
Crude fibre.....	0.1
Crude ash.....	7.0
Calcium.....	0.7
Sodium.....	0.5
Phosphorus.....	0.6

Additives (per kg)

Antioxidants	
E321 B.H.T.....	28 ppm
Vitamines	
3a672a Vit. A (Retinyl acetate).....	25 000 UI
3a671 Vit. D3.....	10 000 UI
3a700 Vit. E (all-rac-alpha-tocopheryl acetate).....	85 UI
3a710 Vit. K3.....	5 mg
3a821 Vit. B1.....	10 mg
3a300 Vit. C (L-ascorbic acid).....	175 mg
Trace-element	
3b103 Iron (Monohydrate Iron sulfate).....	100 mg
3b405 Copper (Copper(II) sulfate, pentahydrate).....	10 mg
3b603 Zinc (Zinc oxide).....	120 mg
3b503 Manganese (Manganese sulfate, monohydrate).....	64 mg
3b202 Iodine (Calcium iodate, anhydrous).....	0,1 mg
3b801 Selenium (Sodium selenite).....	0,2 mg

Indication about composition is likely to change according to the raw material context

FEEDING INSTRUCTIONS

- Rate : 110 - 145 g of powder per litre of reconstituted milk.
- Warm half of the required water at 45-50° C.
- Add **101 BT** and mix.
- Make up to the required volume with warm water.
- Feed to calves at 38 - 40° C.

HOUSEKEEPING TIPS

- Keep feeding equipment clean.
- Clean all feeding equipment thoroughly after each use.
- Turn over buckets before stacking them.
- Store bags in a dry place.
- Close bags after each feeding.
- Make sure to feed at the correct temperature (38-40°C).
- Make sure fresh clean water is available at all times.
- Regular quality certification of your water supply is recommended..

INDICATIVE FEEDING PROGRAMME

2 meals per day (concentration 145 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
6 - 7 th day	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
2 nd week	3,0 litres	2	0,430 kg (1kg + 6 litres water)	
3 rd to 6 th week	3,5 litres	2	0,500 kg (1kg + 6 litres water)	
7 th week	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
8 th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
9 th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
10 th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
11 th week	Weaning when the heifer consumes at least 2 kg dry feed / day			

1 meal per day (concentration 145 gr of reconstituted milk) from the 3rd week

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
6 - 7 th day	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
2 nd week	3,0 litres	2	0,430 kg (1kg + 6 litres water)	
3 rd week	4,0 litres	1	0,800 kg (1kg + 4 litres water)	
4 th to 6 th week	4,5 litres	1	0,900 kg (1kg + 4 litres water)	
7 th week	3,5 litres	1	0,700 kg (1kg + 4 litres water)	
8 th week	2,5 litres	1	0,500 kg (1kg + 4 litres water)	
9 th week	2,0 litres	1	0,400 kg (1kg + 4 litres water)	
10 th week	2,0 litres	1	0,400 kg (1kg + 4 litres water)	
11 th week	Weaning when the heifer consumes at least 2 kg dry feed / day			



Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostrometer, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

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Aliments d'allaitement

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SmartFeed®
Smart Growth

Celtilait



The successful dairy cow is grown from birth
Optimize your results by choosing a new
concept of milk replacer

A 23 MFN

Premium Quality Whey Based Milk Replacer
for Dairy Replacements and High Potential Beef calves

SmartFeed concept

- Precision Whey based formulation for rapid early frame growth.
- Well balanced formulation containing high levels of energy and quality dairy protein.
- Well stocked with amino acids, fat and lactose.
- Suitable for all milk feeding systems including automatic feeders.
- Contains a natural plant extract to help prevent Coccidiosis and protect the intestinal lining to improve nutrient absorption.

A 23 MFN

Produced by a
Dairy Processor

100% soluble proteins,
essentially
from dairy origin

Fortified with vitamins
and trace elements
to meet all requirements

Fats are incorporated
by Spray-drying
process for better
digestibility

Contains "secured
nucleus" organic acids
and plant extracts to help
prevent digestive upsets
and resist parasitic attack
(a big help in group
rearing)

Dissolves readily
in warm water at
45/50°C

FT SmartFeed A23 GB MFN-107-20230207



Designed for automatic feeders

A 23 MFN

Premium Quality Whey Based Milk Replacer
for Dairy Replacements and High Potential Beef calves

TECHNICAL CHARACTERISTICS

Composition

Whey, Whey protein concentrate, Buttermilk, Wheat protein, Rapeseed oil, Palm oil, Coco oil, Starch(Wheat), Sodium Chloride, Dextrose, Yeasts products (MOS), Magnesium sulphate, Dicalcium phosphate, Magnesium hydroxide, Calcium carbonate.

Contains only fats of vegetable and dairy origin

Analytical constituents (%)

Crude protein	23.0
Crude fats	18.0
Crude fibre	0.0
Crude ash	8.0
Calcium	0.7
Sodium	0.8
Phosphorus	0.7

Additives (per kg)

Antioxidants	
E321 B.H.T.	44 ppm
Vitamines	
3a672a Vit. A (Retinyl acetate)	25 000 UI
E671 Vit. D3	10 000 UI
3a700 Vit. E (all-rac-alpha-tocopheryl acetate)	500 UI
3a710 Vitamin K3	5 mg
3a821 Vitamin B1	10 mg
3a300 Vitamin C (L-ascorbic acid)	175 mg
Trace-element	
3b103 Iron (monohydrate ferrous sulphate)	100 mg
3b405 Copper (Copper(II) sulfate, pentahydrate)	10 mg
3b603 Zinc (Zinc sulfate, monohydrate)	120 mg
3b503 Manganese (Manganese sulfate, monohydrate)	65 mg
3b503 Iodine (Calcium iodate, anhydrous)	0,1 mg
3b801 Selenium (Sodium selenite)	0,2 mg
Gut flora stabiliser	
4b1708 Enterococcus Faecium NCIMB 11181	1,5 x 10 ⁹ CFU

The ingredient composition declared is subject to change subject to raw material availability.

FEEDING INSTRUCTIONS

- Rate : 110 - 145 g of powder per litre of reconstituted milk.
- Warm half of the required water at 45-50° C.
- Add **A 23** and mix.
- Make up to the required volume with warm water.
- Feed to calves at 38 - 40° C.

HOUSEKEEPING TIPS

- Keep feeding equipment clean.
- Clean all feeding equipment thoroughly after each use.
- Turn over buckets before stacking them.
- Store bags in a dry place.
- Close bags after each feeding.
- Make sure to feed at the correct temperature (38-40°C).
- Make sure fresh clean water is available at all times.
- Regular quality certification of your water supply is recommended.

INDICATIVE FEEDING PROGRAMME

2 meals per day (concentration 145 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
6 - 7 th day	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
2 nd week	3,0 litres	2	0,430 kg (1kg + 6 litres water)	
3 rd to 6 th week	3,5 litres	2	0,500 kg (1kg + 6 litres water)	
7 th week	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
8 th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
9 th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
10 th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
11 th week	Weaning when the heifer consumes at least 2 kg dry feed / day			

1 meal per day (concentration 200 gr of reconstituted milk) from the 3rd week

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
6 - 7 th day	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
2 nd week	3,0 litres	2	0,430 kg (1kg + 6 litres water)	
3 rd week	4,0 litres	1	0,800 kg (1kg + 4 litres water)	
4 th to 6 th week	4,5 litres	1	0,900 kg (1kg + 4 litres water)	
7 th week	3,5 litres	1	0,700 kg (1kg + 4 litres water)	
8 th week	2,5 litres	1	0,500 kg (1kg + 4 litres water)	
9 th week	2,0 litres	1	0,400 kg (1kg + 4 litres water)	
10 th week	2,0 litres	1	0,400 kg (1kg + 4 litres water)	
11 th week	Weaning when the heifer consumes at least 2 kg dry feed / day			



Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostrometer, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

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Optimize your results by choosing a new concept of milk replacer

Up! MFN

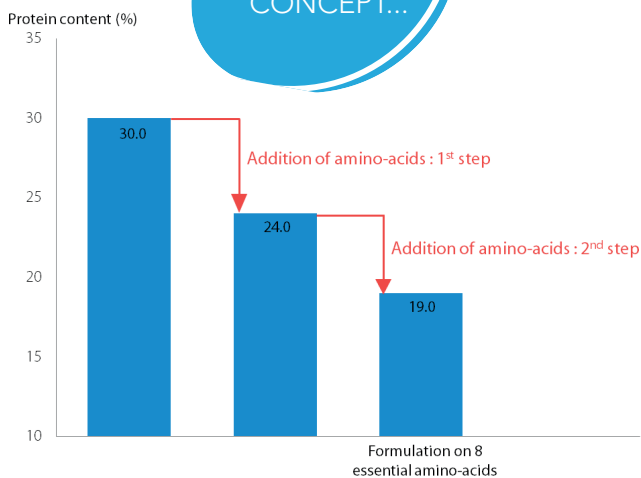
The cost-Effective new concept combining skim and whey powders supplemented with essential amino acids

Smart feed Concept

- Precision Amino Acid based formulation for optimum performance.
- Well balanced formulation containing high levels of energy and quality dairy protein.
- Well stocked with amino acids, fat and lactose.
- Suitable for all milk feeding systems including automatic feeders.
- Uses the latest knowledge in amino acid nutrition to optimize performance at lower cost.

Celtilait UP!

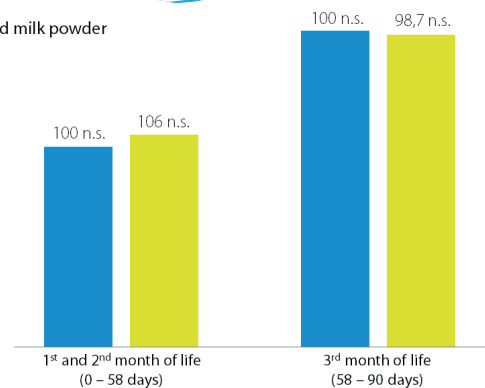
A NEW AND INNOVATIVE CONCEPT...



Protein content evolution according to Optimization of amino-acid profile

...FOR CONVINCING RESULTS!

■ 50% skimmed milk powder
■ Celtilait Up!



Average daily gain comparison between a 50% skimmed milk powder and celtilait Up!
(trials carried out in Celtilait farm network)



Designed for automatic feeder

Up! MFN

The cost-Effective new concept
combining skim and whey powders supplemented with essential amino acids

TECHNICAL CHARACTERISTICS

Composition

Whey, Palm oil, Wheat protein, Skimmed milk, Coco oil, Wheat flour, Starch(Wheat), Dextrose, Calcium carbonate, Sodium bicarbonate, Sodium Chloride, Rapeseed oil, Magnesium sulphate, Dicalcium phosphate, Magnesium hydroxide.

Contains only fats of vegetable and dairy origin

Analytical constituents (in %)

Crude protein.....	19.0
Crude fats.....	21.0
Crude fibre.....	0.1
Crude ash.....	7.5
Calcium.....	1.2
Phosphorus.....	0.6
Sodium.....	0.5

Additives (per kg)

Antioxidants	
E321 B.H.T.....	38 mg
Vitamines	
3a672a Vit. A.....	25 000 UI
3a671 Vit. D3.....	10 000 UI
3a700 Vit. E (all-rac-alpha-tocopheryl acetate).....	500 mg
3a710 Vitamin K3.....	5 mg
3a821 Vitamin B1.....	10 mg
3a300 Vitamin C (L-Acide ascorbique).....	210 mg
Trace-element	
3b103 Iron (Ferrous sulphate, monohydrate).....	100 mg
3b405 Copper (Cupric sulphate, pentahydrate).....	10 mg
3b603 Zinc (Zinc oxide).....	120 mg
3b503 Manganese (manganese sulfate, monohydrate).....	65 mg
3b202 Iodine (calcium iodate, anhydrous).....	0.1 mg
3b801 Selenium (sodium selenite).....	0.2 mg
Gut flora stabilisers	
4b1708 Enterococcus Faecium NCIMB 11181.....	1,5*10 ⁹ CFU

The ingredient composition declared is subject to change subject to raw material availability.

FEEDING INSTRUCTIONS

- Rate : 145 g of powder per litre of reconstituted milk.
- Warm half of the required water at 45-50° C.
- Add Celtlait UP! and mix.
- Make up to the required volume with warm water.
- Feed to calves at 38 - 40° C.

HOUSEKEEPING TIPS

- Keep feeding equipment clean.
- Clean all feeding equipment thoroughly after each use.
- Turn over buckets before stacking them.
- Store bags in a dry place.
- Close bags after each feeding.
- Make sure to feed at the correct temperature (38-40°C).
- Make sure fresh clean water is available at all times.
- Regular quality certification of your water supply is recommended.

INDICATIVE FEEDING PROGRAMME

2 meals per day (concentration 145 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg	
6 - 7 th day	2,5 litres	2	0,360 kg	
2 nd week	3,0 litres	2	0,430 kg	
3 rd to 6 th week	3,5 litres	2	0,500 kg	
7 th week	2,5 litres	2	0,360 kg	
8 th week	2,5 litres	1	0,360 kg	
9 th week	2,5 litres	1	0,360 kg	
10 th week	2,5 litres	1	0,360 kg	
11 th week	Weaning when the calf consumes at least 2 kg dry feed / day			

1 meal per day from the 3rd week (concentration 200 gr of reconstituted milk)

Age	Volume/meal	Number of meal/day	Milk powder + water	
1 - 4 th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5 th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5 th day in the evening	2,5 litres	1	0,360 kg	
6 - 7 th day	2,5 litres	2	0,360 kg	
2 nd week	3,0 litres	2	0,430 kg	
3 rd week	4,0 litres	1	0,800 kg	
4 th to 6 th week	4,5 litres	1	0,900 kg	
7 th week	3,5 litres	1	0,700 kg	
8 th week	2,5 litres	1	0,500 kg	
9 th week	2,0 litres	1	0,400 kg	
10 th week	2,0 litres	1	0,400 kg	
11 th week	Weaning when the calf consumes at least 2 kg dry feed / day			



Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostrometer, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

Distributed by :





Which feeding programme is the best for my farm ?

FARM ISSUES

**Practicality,
Rapidity**

**Growth
performances**

**Health problems
control**



QUICK

feeding programme
(once a day)

PASS

feeding programme
(twice a day)

BOOST

feeding programme
(twice a day)

SECURITY

feeding programme
(twice a day)



Once a Day - QUICK - Feeding programme

MILK PREPARATION

- 1 Warm half of the required water at 45-50° C.
- 2 Add the Required amount of milk powder.
- 3 Mix.
- 4 Make up to the required volume with warm water to feed at 38 - 40° C.
- 5 Mix again for 30 seconds.

MEMO COLOSTRUM

- Pay close attention to hygiene: Cows Udder, Colostrum Collection, equipment, etc...
- Assess the quality of colostrum (colostrometer, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

Once a Day Feeding programme (200 g/L)

Week	Breeding day	Number of meal/day	Volume/meal (L)	Milk powder quantity/meal (kg)	Water volume/meal (L)
1	0 → 4 th day		Colostrum	Colostrum	
1	5 th day in the morning		Meal with Hydroplus (2L)	Meal with Hydroplus (2L)	
1	5 th day in the evening		3	0.6	2.5
1	6 - 7 th day	1	3	0.6	2.5
2	8 → 14 th day	1	3.5	0.7	2.9
3	15 → 21 th day	1	4	0.8	3.3
4	22 → 28 th day	1	4	0.8	3.3
5	29 → 35 th day	1	4	0.8	3.3
6	36 → 42 th day	1	3.5	0.7	2.9
7	43 → 49 th day	1	3.5	0.7	2.9
8	50 → 56 th day	1	3.5	0.7	2.9
9	57 → 63 th day	1	3	0.6	2.5
10	64 → 70 th day	1	2	0.4	1.7
11	71 → 77 th day	1	2	0.4	1.7

Water
+
hay or straw
+
dry feed
Ad libitum

Twice a Day - PASS - Feeding Programme

MILK PREPARATION

- 1 Warm half of the required water at 45-50° C.
- 2 Add the Required amount of milk powder.
- 3 Mix.
- 4 Make up to the required volume with warm water to feed at 38 - 40° C.
- 5 Mix again for 30 seconds.

MEMO COLOSTRUM

- Pay close attention to hygiene: Cows Udder, Colostrum Collection, equipment, etc...
- Assess the quality of colostrum (colostrometer, refractometer)
- Feed immediately after milking or refrigeration
- 2 litres within the first 4 hours of life, then 2 litres within 12 hours.

Twice a Day Feeding Programme (145 g/L)

Age	Number of meal/day	Volume/ meal (L)	Milk powder quantity/meal (kg)	Water volume/ meal (L)
1 – 4 th day	2	2.5	Colostrum	Colostrum
5 th day in the morning	2	2	Meal with Hydroplus	Meal with Hydroplus
5 th day in the evening	1	2.5	0.36	2.1
6 – 7 th day	2	2.5	0.36	2.1
2 nd week	2	3	0.43	2.5
3 rd to 6 th week	2	3.5	0.50	2.9
7 th week	2	2.5	0.36	2.1
8 th to 10 th week	1	2.5	0.36	2.1

Water
+
hay or straw
+
dry feed
Ad libitum

Concentration: 145g/L = 1kg of milk replacer for 6L of water

Weaning : when calf consumes at least 2 kg of dry feed

Feeding Programme for Automatic Feeders

AUTOMATIC CALF FEEDERS

All Celtlait milk replacers can be fed using any of the conventional automatic calf feeders and they can be interchanged with all other quality milk replacers that you may have previously used with your feeder.

This feeding programme will ensure a safe introduction to the feeder in the first few weeks and encourage good early intakes of starter feed and water, both of which are essential to accelerate rumen development.

Success in this critical period will ensure the dual aims of rapid early growth in tandem with accelerating rumen function that will maintain post weaning growth rates.

Feeding Plan for Automatic Feeders

Phase	Age	Nb days	Concentration g/L /meal	Meal (L)/day	Milk powder quantity/day	Meal/day	
1	D1 to D5	Colostrum + meal with Hydroplus					
2	D6 to D7	2	150	4	600	1 - 3	
3	D8 to D11	4	150	6	900	2 - 4	
4	D12 to D16	5	150	8	1200	3 - 5	
5	D17 to D30	14	150	10	1500	3 - 6	
6	D31 to D39	9	150	8	1200	3 - 5	
7	D40 to D48	9	150	6	900	2 - 4	
8	D49 to D52	4	150	4	600	1 - 3	
9	D53 to D56	4	150	4	600	1 - 3	
10	D57 to D63	7	150	2	300	1 - 2	
Weaning							

Total quantity of milk replacer : 58 kg

In France and worldwide

- Active on the main world markets
- Our range of milk replacers meets requirements of each market
- Our products are sold in more than 30 countries



OUEST ELEVAGE, une société **laita**
380 Lesgall an Taro - CS 60068 - 29260 Ploudaniel - FRANCE
Tél. (33) 02 98 36 21 80
<http://www.celtlait.com> - e-mail : celtilait@celtilait.com