SmartFeed®
Smart Growth

Celtilait

Young animal nutrition

Distributed by

MID-WEST
FARM NUTRITION

The successful dairy cow

is grown up from birth

Feed Safety
GMP+
Assurance

www.celtilait.com

Celtilait
Nutrition des jeunes animaux

Celtilait offers you its nutritional expertise for the benefit of the youngest animals.

Expert in nutrition and dietetics for young mammals, Celtilait produces a range of milk replacers and nutritional supplements to promote the best possible start of young animals.

Celtilait offers specific nutritional solutions that meet the needs of numerous production sectors around the world, giving it unrivalled expertise.

As a subsidiary of the dairy cooperative Laïta, Celtilait uses raw materials and industrial processes meeting the highest quality standards.

Who are Laïta?

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

3 130 employees

1.74 billion euros turnover

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

7 industrial sites

1.4 billion litres of milk collected from **2 280** dairy farms

Clients in over **110** countries

Knowledge and expertise in production sectors

SCIENTIFIC **MONITORING**

RESEARCH **PARTNERSHIPS**

INDUSTRIAL **KNOW-HOW**

FARM **PARTNERS**

- Celtilait's expertise also includes in-depth knowledge of animal production sectors, both dairy and meat production, on a European and international scale.

- This expertise is based on more than 30 years' experience in veal calf production and ensures animation of a lamb, veal calf and veal calf farm network.

Celtilait
Young animal nutrition

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 Celtilait 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.

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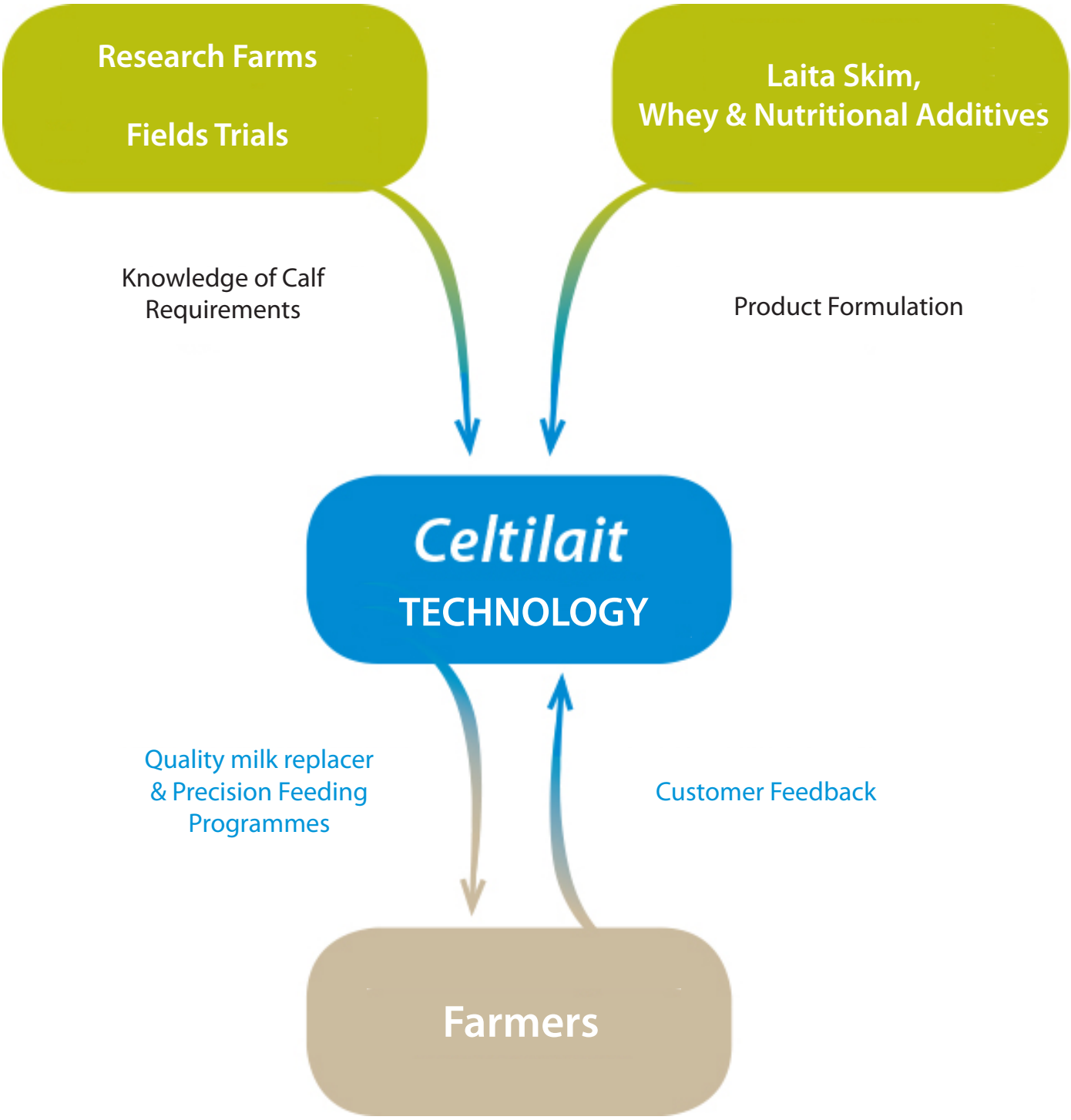
Technology and Knowledge



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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

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Heifer Rearing Strategy

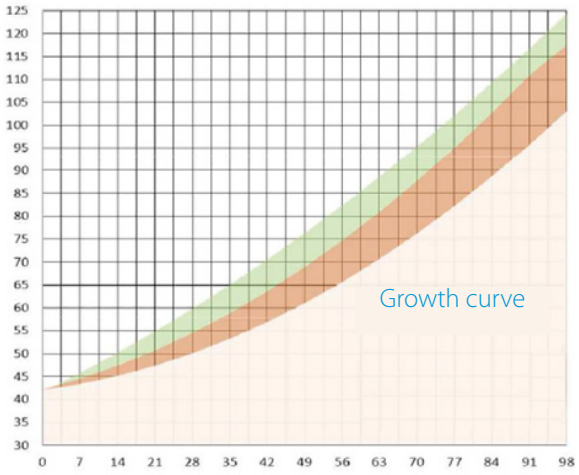
The successful dairy cow is grown from birth

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'Elevage, 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 Celtilait 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

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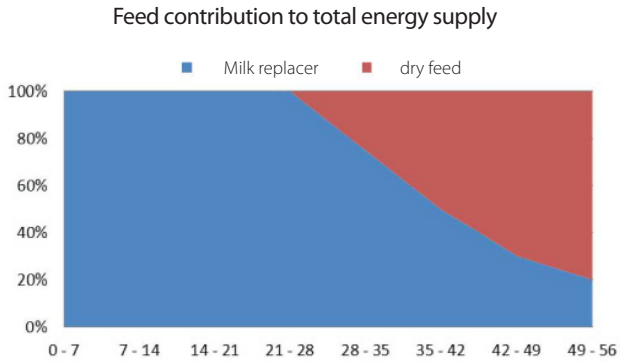
Pre-Weaning Feeding Strategy

- 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 (Celtilait 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)

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Young animal nutrition

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

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Young animal nutrition

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

3P

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

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

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 flour, Coco oil, Wheat protein, Starch(Wheat), Sodium Chloride, Sodium bicarbonate, Magnesium sulphate, Rapeseed oil, Monopotassium phosphate, Calcium carbonate.

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.	30 mg
Preservatives	
1a238 Calcium formiate	1 770 mg
1a330 Citric acid	375 mg
Vitamines	
3a672a Vitamin A	25 000 UI
3a671 Vitamin D3	10 000 UI
3a700i Vit. E (all-rac-alpha-tocopheryl acetate)	500 mg
3a711 Vitamin K3	5 mg
3a820 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)	8 mg
3b603 Zinc (Zinc oxide)	120 mg
3b503 Manganese (manganese sulfate, monohydrate)	65 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 **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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg	
6 - 7th day	2,5 litres	2	0,360 kg	
2nd week	3,0 litres	2	0,430 kg	
3rd to 6th week	3,5 litres	2	0,500 kg	
7th week	2,5 litres	2	0,360 kg	
8th week	2,5 litres	1	0,360 kg	
9th week	2,5 litres	1	0,360 kg	
10th week	2,5 litres	1	0,360 kg	
11th 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg	
6 - 7th day	2,5 litres	2	0,360 kg	
2nd week	3,0 litres	2	0,430 kg	
3rd week	4,0 litres	1	0,800 kg	
4th to 6th week	4,5 litres	1	0,900 kg	
7th week	3,5 litres	1	0,700 kg	
8th week	2,5 litres	1	0,500 kg	
9th week	2,0 litres	1	0,400 kg	
10th week	2,0 litres	1	0,400 kg	
11th week	Weaning when the calf consumes at least 2 kg dry feed / day			

MEMO

Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostro-meter, 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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MID-WEST FARM NUTRITION

FT SmartFeed FIRST GB MFN-106-20241211

Celtilait

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

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Tél. (33) 02 98 36 21 80 - http://www.celtilait.com - e-mail : celtilait@celtilait.com

Celtilait

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), Magnesium sulphate, Rapeseed oil, Monopotassium phosphate, Calcium carbonate.

Contains only fats of vegetable and dairy origin

Analytical constituents (%)

Crude protein	25.0
Crude oils and fats	20.0
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

Preservatives

1k202 Potassium sorbate	2 240 mg
1a330 Citric acid	3 375 mg

Vitamins

3a672a Vitamin A	25 000 UI
3a671 Vitamin D3	10 000 UI
3a700i Vitamin E (all-rac-alpha-tocopheryl acetate)	500 UI
3a711 Vitamin K3	5 mg
3a820 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)	64 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg	
6 - 7th day	2,5 litres	2	0,360 kg	
2nd week	3,0 litres	2	0,430 kg	
3rd to 6th week	3,5 litres	2	0,500 kg	
7th week	2,5 litres	2	0,360 kg	
8th week	2,5 litres	1	0,360 kg	
9th week	2,5 litres	1	0,360 kg	
10th week	2,5 litres	1	0,360 kg	
11th 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg	
6 - 7th day	2,5 litres	2	0,360 kg	
2nd week	3,0 litres	2	0,430 kg	
3rd week	4,0 litres	1	0,800 kg	
4th to 6th week	4,5 litres	1	0,900 kg	
7th week	3,5 litres	1	0,700 kg	
8th week	2,5 litres	1	0,500 kg	
9th week	2,0 litres	1	0,400 kg	
10th week	2,0 litres	1	0,400 kg	
11th week	Weaning when the calf consumes at least 2 kg dry feed / day			

MEMO

Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostro-meter, 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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MID-WEST FARM NUTRITION

FT Heifer Max GB MFN-109-20241220

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Tél. (33) 02 98 36 21 80 - http://www.celtilait.com - e-mail : celtilait@celtilait.com

Celtilait

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 probiotics (Enterococcus Faecium) to prevent digestive disorders

Dissolves readily in warm water at 45/50°C

FT SmartFeed A23 GB MFN-107-20241220

OUEST ELEVAGE - 380 Lesgall an Taro - CS 60068 - 29260 Ploudaniel - FRANCE
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SmartFeed®
Smart Growth

Celtilait

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, Delactosed whey, Buttermilk, Rapeseed oil, Wheat protein, Palm oil, Coco oil, Starch(Wheat), Sodium Chloride, Magnesium sulphate, Monopotassium phosphate, 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	8.1
Calcium	0.7
Sodium	0.9
Phosphorus	0.8

Additives (per kg)

Antioxidants	
E321 B.H.T.	44 ppm
Preservatives	
1a330 Citric acid	2 375 mg
Vitamins	
3a672a Vit. A (Retinyl acetate)	25 000 UI
3a671 Vit. D3	10 000 UI
3a700i Vit. E (all-rac-alpha-tocopheryl acetate)	500 UI
3a711 Vitamin K3	5 mg
3a820 Vitamin B1	10 mg
3a300 Vitamin C (L-ascorbic acid)	150 mg
Trace-element	
3b103 Iron (monohydrate ferrous sulphate)	100 mg
3b405 Copper (Copper(II) sulfate, pentahydrate)	8 mg
3b603 Zinc (Zinc sulfate, monohydrate)	120 mg
3b503 Manganese (Manganese sulfate, monohydrate)	65 mg
3b503 Iodine (Calcium iodate, anhydrous)	0,2 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.

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

MEMO

Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostro-meter, 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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SmartFeed®
La croissance intelligente

Celtilait

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-20241011

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

SmartFeed®
La croissance intelligente

Celtilait

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, Buttermilk, Coco oil, Delactosed whey, 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 mg
Preservatives	
1a238 Calcium formate	2 125 mg
3a671 Citric acid	195 mg
Vitamins	
3a672a Vit. A (Retinyl acetate)	25 000 UI
3a671 Vit. D3	10 000 UI
3a700i Vit. E (all-rac-alpha-tocopheryl acetate)	85 UI
3a300 Vit. C (L-ascorbic acid)	175 mg
Flavouring compounds	
2b317eo Essential oil from Origanum vulgare L	26 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
6 - 7th day	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
2nd week	3,0 litres	2	0,430 kg (1kg + 6 litres water)	
3rd to 6th week	3,5 litres	2	0,500 kg (1kg + 6 litres water	
7th week	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
8th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
9th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
10th week	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
11th 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg (1kg + 6 litres water)	
6 - 7th day	2,5 litres	2	0,360 kg (1kg + 6 litres water)	
2nd week	3,0 litres	2	0,430 kg (1kg + 6 litres water)	
3rd week	4,0 litres	1	0,800 kg (1kg + 4 litres water)	
4th to 6th week	4,5 litres	1	0,900 kg (1kg + 4 litres water)	
7th week	3,5 litres	1	0,700 kg (1kg + 4 litres water)	
8th week	2,5 litres	1	0,500 kg (1kg + 4 litres water)	
9th week	2,0 litres	1	0,400 kg (1kg + 4 litres water)	
10th week	2,0 litres	1	0,400 kg (1kg + 4 litres water)	
11th week	Weaning when the heifer consumes at least 2 kg dry feed / day			

MEMO

Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostro-meter, 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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MID-WEST FARM NUTRITION

Celtilait

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Tél. (33) 02 98 36 21 80 - http://www.celtilait.com - e-mail : celtilait@celtilait.com

SmartFeed®
Smart Growth

Celtilait

Optimize your results by choosing a new concept of milk replacer

Up! MFN

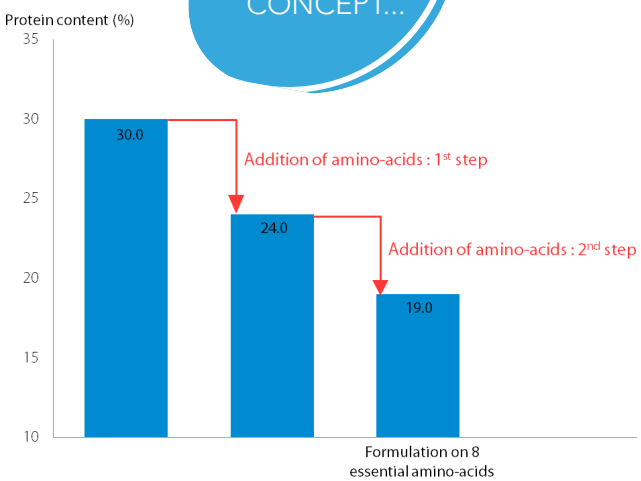
The cost-Effective new concept
combining skim and whey powders supplemented with essential amino acids

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.

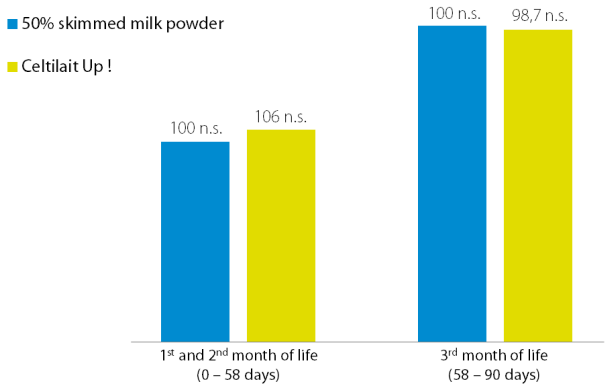
Celtilait UP!

A NEW AND INNOVATIVE CONCEPT...



Protein content evolution according to Optimization of amino-acid profile

...FOR CONVINCING RESULTS!



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

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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, Skimmed milk, Wheat protein, Coco oil, Wheat flour, Starch(Wheat), Sodium bicarbonate, Sodium Chloride, Magnesium sulphate, Rapeseed oil, Monopotassium phosphate, Calcium carbonate.

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
Preservatives	
1a238 Calcium formiate	1 770 mg
1a330 Citric acid	375 mg
Vitamins	
3a672a Vit. A	25 000 UI
3a671 Vit. D3	10 000 UI
3a700 Vit. E (all-rac-alpha-tocopheryl acetate)	500 mg
3a711 Vitamin K3	5 mg
3a820 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)	0.2 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 Celtilait 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg	
6 - 7th day	2,5 litres	2	0,360 kg	
2nd week	3,0 litres	2	0,430 kg	
3rd to 6th week	3,5 litres	2	0,500 kg	
7th week	2,5 litres	2	0,360 kg	
8th week	2,5 litres	1	0,360 kg	
9th week	2,5 litres	1	0,360 kg	
10th week	2,5 litres	1	0,360 kg	
11th 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 - 4th day	2,0 / 2,5 litres	2	Colostrum	Minimum 4 litres colostrum before 10/12 hours of life
5th day in the morning	2,0 litres	1	HYDROPLUS	Water + straw or hay + dry feed ab libitum
5th day in the evening	2,5 litres	1	0,360 kg	
6 - 7th day	2,5 litres	2	0,360 kg	
2nd week	3,0 litres	2	0,430 kg	
3rd week	4,0 litres	1	0,800 kg	
4th to 6th week	4,5 litres	1	0,900 kg	
7th week	3,5 litres	1	0,700 kg	
8th week	2,5 litres	1	0,500 kg	
9th week	2,0 litres	1	0,400 kg	
10th week	2,0 litres	1	0,400 kg	
11th week	Weaning when the calf consumes at least 2 kg dry feed / day			

MÉMO

Memo Colostrum :

- Be careful of hygiene : colostrum collection (udder, collection bottle, etc...)
- Assess the quality of colostrum (colostro-meter, 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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Which feeding programme is the best for my farm ?

FARM ISSUES

Practicality, Rapidity

Growth performances

- High
- Very high

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)

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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.

- 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 → 4th day		Colostrum	Colostrum	
1	5th day in the morning		Meal with Hydroplus (2L)	Meal with Hydroplus (2L)	
1	5th day in the evening		3	0.6	2.5
1	6 - 7th day	1	3	0.6	2.5
2	8 → 14th day	1	3.5	0.7	2.9
3	15 → 21th day	1	4	0.8	3.3
4	22 → 28th day	1	4	0.8	3.3
5	29 → 35th day	1	4	0.8	3.3
6	36 → 42th day	1	3.5	0.7	2.9
7	43 → 49th day	1	3.5	0.7	2.9
8	50 → 56th day	1	3.5	0.7	2.9
9	57 → 63th day	1	3	0.6	2.5
10	64 → 70th day	1	2	0.4	1.7
11	71 → 77th day	1	2	0.4	1.7

Water + hay or straw + dry feed Ad libitum

20241210-Plan 1 repas par jour GB MFN

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

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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.

- 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 – 4th day	2	2.5	Colostrum	Colostrum
5th day in the morning	2	2	Meal with Hydroplus	Meal with Hydroplus
5th day in the evening	1	2.5	0.36	2.1
6 – 7th day	2	2.5	0.36	2.1
2nd week	2	3	0.43	2.5
3rd to 6th week	2	3.5	0.50	2.9
7th week	2	2.5	0.36	2.1
8th to 10th week	1	2.5	0.36	2.1

20/12/2021-Plan 2 repas par jour GB MFA

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

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Feeding Programme for Automatic Feeders

AUTOMATIC CALF FEEDERS

All Celtilait 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

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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 25 countries

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