




Organic SOP-calves

Organic SOP-calves describes the care of calves from calving and ensures that the organic requirements are met.

Among the topics are

- Specific requirements for the care of organic calves (0-3 months) - marked with a 
 - Requirements for calves grazing described in Organic SOP-Grazing
- Milk from colostrum bank
- Heating and feeding of raw milk
- The transition to solid food via whole milk and solid feed
- Signs of illness among calves - diarrhoea and pneumonia
- Good hygiene around the calves pen and feed equipment

All topics are illustrated with drawings and short texts that you can edit so it fits the conditions on your farm.











When you organize and implement 13SOP on your farm, it is an advantage to involve a Lean-certified cattle adviser. You'll find them on www.leankvaeg.dk. Experience shows that an introductory course with the help of an expert is crucial for the output of SOP in the long run.

In the guide "Getting Started with SOP" (attached), there are some guidelines you can consider before you begin to adapt SOP for your work procedures.

Enjoy your SOP.



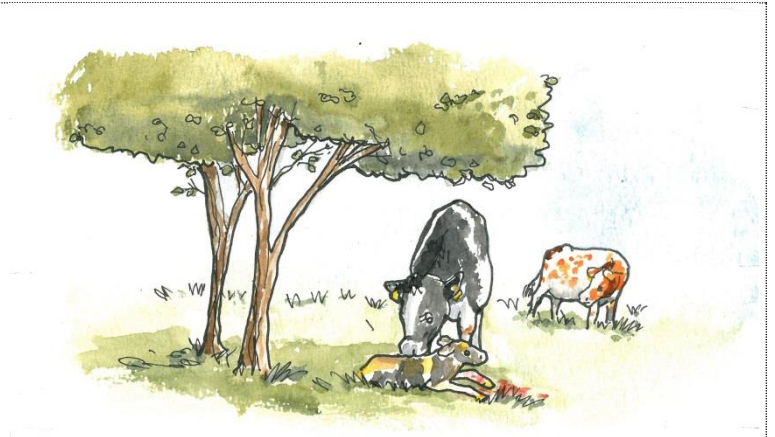
Contents

1. Newborn calves – requirements for organic calves 	3
1. Newborn calves - Milk in colostrum bank.....	4
2a. Newborn calves - Colostrum from freezer.....	6
2b. Newborn calves - Colostrum from fridge into water bath.....	7
2c. Newborn calves - Colostrum from fridge into microwave oven.....	8
2d. Newborn calves - Fresh colostrum from cow to calf.....	9
3. Newborn calves - First feeding of colostrum	10
4. Newborn calves - Navel disinfection	11
5. Calves - Teach the new born calf to drink ().....	12
6a. Calves - Milk feeding ()	15
6b. Calves - Feeding with calf milk replacer ()	16
6c. Calves - Feeding with milk/milk replacer	18
6d. Calves - Feeding with pasteurized milk.....	20
7. Calves - Solid feed and water.....	22
8. Calves - Spread bedding in pens/huts	23
9. Calves - Observe illness ().....	24
10. Probe feeding sick calves	27
11. Calves – Diarrhoea ().....	29
12. Calves - Lung infection and other disorders ().....	31
13. Calves - Hygiene equipment for milk and feed.....	33
14. Calves - Pen hygiene (newborn calves) ()	34
15. Calves - Mark pen ()	36
Mixing table for calf milk replacer	37
16. Organic requirements – overview 	38

1. Newborn calves – requirements for organic calves

Ø.1 

Cow and calf must be together at least 24 hours after calving



Ø.2 

Requirements for box area

Young calves up to 100 kg must have at least 1.5 m² of indoor area per calf.

At least 0.75 m² must be solid floor.

Calves in individual boxes must have physical contact with other calves.



1. Newborn calves - Milk in colostrum bank

1.1 Check the cow for Para TB-status

GREEN cow

→ Use colostrum

RED or **YELLOW** cow

Or pink earmark!

→ Milk cannot be used for heifer calves!

(Milk only to bull calves can be stored in a red plastic bag)

Dansk Kvæg	Mælkekvæg	ParaTB Mælkefodringsliste
	Bos-nr Købt/dato 29-05-10	CHR 7
		Udskrevet 11-07-10 10.42 Side 1
		Læ, Evægafdelingen 76 58 75 00 605

Baseret på mælkeresultater i CHR målt den 29-05-10

Risiko = Høj: mælk bruges ikke til fodring af kvie-kalve; Høj kælvningshygiejne

Ckr-Dyrr.	ELISA	Forrige Kælv nr.	Forventet kælvdato	Ydelsesnedgang	Inf.-grp
01290	0.3	0.0	5 14.08.10	Sandsynligt	2#
01473 afg	0.7	0.5	4	Meget sandsynligt	5#
01700	0.7	0.0	2 03.08.10	Sandsynligt	2#
01723	0.4	0.1	1 25.01.11	Sandsynligt	2#
01733	0.8	0.8	1 02.12.10	Meget sandsynligt	5#
01741	0.5	0.5	1 11.10.10	Meget sandsynligt	5#
01766 afg	0.6		2	Sandsynligt	2#
01789	0.8	0.9	1 27.07.10	Meget sandsynligt	5#
1864	0.3	0.1	5 17.10.10	Sandsynligt	2#
2018		0.3	4	Sandsynligt	2#
2130	0.5		4	Meget sandsynligt	5#
2132	0.3	0.0	3 21.07.10	Sandsynligt	2#
2140	0.7	0.2	3 24.09.10	Muligt	5
2195		0.6	4	Meget sandsynligt	5#

1.2 Check quality of colostrum. Stir milk and put into the measuring glass, remove the foam

Place the measuring glass in cold water and check the temperature

At 20 °C, read value

😊 Above 1045 (dark green)

→ Put in colostrum bank

☹ Less than 1045 (light green/red) → Discard colostrum
Can be used for calves > 1 day



1.3 **Colostrum is poured into portions of ___* litres in cleaned bag/container with date and cow number**

Must be stored airtight

In fridge:

*Large breed: min. 4 litres of colostrum

*Jersey: min. 3 litres of colostrum

In freezer:

*Portions of 1 litre



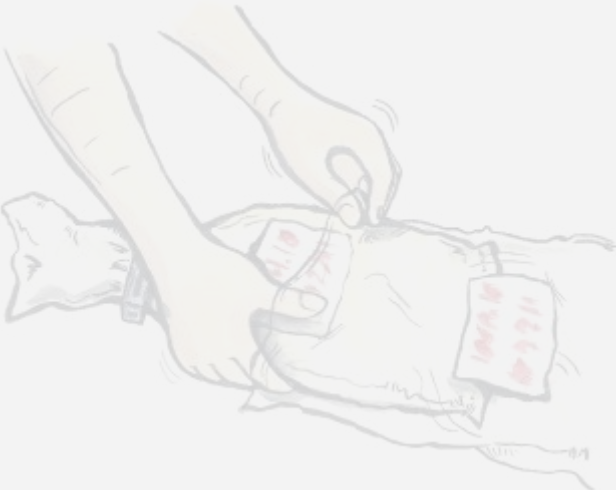
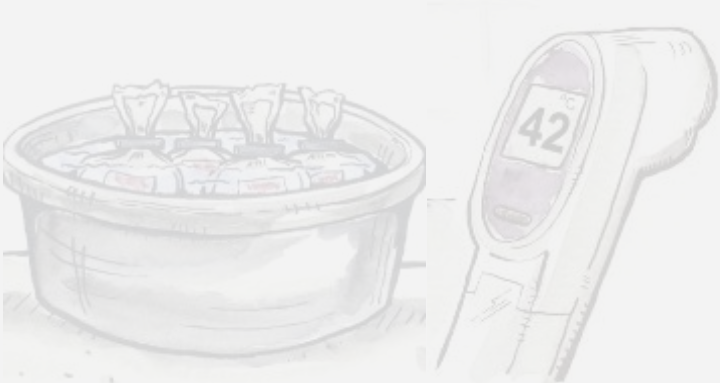
1.4 **Colostrum is placed in a refrigerator / freezer immediately after milking**

Storage life:

- Fridge up to 3-7 days
- Freezer up to 12 months





2a. Newborn calves - Colostrum from freezer

2.1a	<p>Take ___* litres colostrum from freezer</p> <p>If milk is in bags, place milk in extra bag.</p> <p>*Large breed: min. 4 litres of colostrum *Jersey: min. 3 litres of colostrum</p>	
2.2a	<p>Heat in water bath</p> <p>The water in the bath should not exceed 50 °C</p> <p>The water is replaced approx. every 10 minutes until the milk is 40-42 °C</p>	

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2b. Newborn calves - Colostrum from fridge into water bath

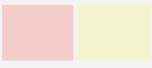


2.1b	<p>Take ____* litres colostrum from fridge</p> <p>*Large breed: min. 4 litres of colostrum *Jersey: min. 3 litres of colostrum</p>	
2.2b	<p>Heat in water bath</p> <p>The water in the bath should not exceed 50 °C</p> <p>Measure temperature. The milk is ready for use at 40-42 °C</p>	

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2c. Newborn calves - Colostrum from fridge into microwave oven

2.1c	<p>Take ___* litres colostrum from fridge</p> <p>*Large breed: min. 4 litres of colostrum *Jersey: min. 3 litres of colostrum</p> <p>Note: Uneven heating in a microwave oven will damage immune substances</p>	
2.2c	<p>The bag is placed in a bucket with the sides folded down so the heat can evaporate</p>	
2.3c	<p>The oven is set on max. effect</p> <p>Set the time on ___ minutes</p> <p>Vil du vide mere – køb hele SOP'en HER</p>	
2.4c	<p>By the end of the heating shake the bag gently a few times</p> <p>Temperature should be 40-42°C. – Heating can be continued with max. 1-2 minutes at a time.</p>	

2d. Newborn calves - Fresh colostrum from cow to calf

2.1d	<p>Check the cow for Para TB-status</p> <p>GREEN cow → Use colostrum</p> <p>RED or YELLOW cow  Or pink earmark!</p> <p>→ Milk cannot be used for heifer calves!</p>	<table border="1"> <thead> <tr> <th>Dansk Kvæg</th> <th>Mælkekvæg</th> <th>ParaTB Mælkefodringsliste</th> </tr> </thead> <tbody> <tr> <td></td> <td>Bes.nr. CHR Købsdato 29-05-10</td> <td>Udsætt 11-07-10 10.42 Side 1 Læ. Evtagsafdelingen 76 58 75 00 605</td> </tr> </tbody> </table> <p>Baseret på mælkeresultater i CHR målt den 29-05-10</p> <p>Risiko = Høj: mælk bruges ikke til fodring af kvie-kalve; Høj kælvningshygiejne</p> <table border="1"> <thead> <tr> <th>Chr-Dyrr.</th> <th>ELISA</th> <th>Fornige 28.02.08</th> <th>Kælv nr.</th> <th>Forventet kælvdato</th> <th>Ydelsesnedgang</th> <th>Inf.-grp</th> </tr> </thead> <tbody> <tr><td>01290</td><td>0.3</td><td>0.0</td><td>5</td><td>14.08.10</td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>01473</td><td>afg 0.7</td><td>0.5</td><td>4</td><td></td><td>Meget sandeynligt</td><td>3#</td></tr> <tr><td>01700</td><td>0.7</td><td>0.0</td><td>2</td><td>03.08.10</td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>01723</td><td>0.4</td><td>0.1</td><td>1</td><td>25.01.11</td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>01733</td><td>0.8</td><td>0.8</td><td>1</td><td>02.12.10</td><td>Meget sandeynligt</td><td>3#</td></tr> <tr><td>01741</td><td>0.5</td><td>0.5</td><td>1</td><td>11.10.10</td><td>Meget sandeynligt</td><td>3#</td></tr> <tr><td>01766</td><td>afg 0.6</td><td></td><td>2</td><td></td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>01789</td><td>0.8</td><td>0.9</td><td>1</td><td>27.07.10</td><td>Meget sandeynligt</td><td>3#</td></tr> <tr><td>1864</td><td>0.3</td><td>0.1</td><td>5</td><td>17.10.10</td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>2018</td><td></td><td>0.3</td><td>4</td><td></td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>2130</td><td>0.5</td><td></td><td>4</td><td></td><td>Meget sandeynligt</td><td>3#</td></tr> <tr><td>2132</td><td>0.3</td><td>0.0</td><td>3</td><td>21.07.10</td><td>Sandeynligt</td><td>2#</td></tr> <tr><td>2140</td><td>0.7</td><td>0.2</td><td>3</td><td>24.09.10</td><td>Muligt</td><td>3</td></tr> <tr><td>2185</td><td></td><td>0.6</td><td>4</td><td></td><td>Meget sandeynligt</td><td>3#</td></tr> </tbody> </table>	Dansk Kvæg	Mælkekvæg	ParaTB Mælkefodringsliste		Bes.nr. CHR Købsdato 29-05-10	Udsætt 11-07-10 10.42 Side 1 Læ. Evtagsafdelingen 76 58 75 00 605	Chr-Dyrr.	ELISA	Fornige 28.02.08	Kælv nr.	Forventet kælvdato	Ydelsesnedgang	Inf.-grp	01290	0.3	0.0	5	14.08.10	Sandeynligt	2#	01473	afg 0.7	0.5	4		Meget sandeynligt	3#	01700	0.7	0.0	2	03.08.10	Sandeynligt	2#	01723	0.4	0.1	1	25.01.11	Sandeynligt	2#	01733	0.8	0.8	1	02.12.10	Meget sandeynligt	3#	01741	0.5	0.5	1	11.10.10	Meget sandeynligt	3#	01766	afg 0.6		2		Sandeynligt	2#	01789	0.8	0.9	1	27.07.10	Meget sandeynligt	3#	1864	0.3	0.1	5	17.10.10	Sandeynligt	2#	2018		0.3	4		Sandeynligt	2#	2130	0.5		4		Meget sandeynligt	3#	2132	0.3	0.0	3	21.07.10	Sandeynligt	2#	2140	0.7	0.2	3	24.09.10	Muligt	3	2185		0.6	4		Meget sandeynligt	3#
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2.2d	<p>Colostrum is milked into a clean milking bucket</p> <p>The milk is poured into a container/ bag</p>																																																																																																																
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3. Newborn calves - First feeding of colostrum

<p>3.1 Within 2-6 hours after birth The sooner, the better</p> <p>Give ___* litres of colostrum with bottle or bowl</p> <p>*Large breed: min. 4 litres of colostrum *Jersey: min. 3 litres of colostrum</p>	
<p>3.2 If the calf does not suck within 5 minutes – give the colostrum using your fingers.</p> <p>Remember 40-42 °C when feeding</p>	

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4. Newborn calves - Navel disinfection

4.1	<p>Put on disposable gloves</p> <p>Place the navel in the navel disinfection bottle. Lift the bottle top right up under the belly</p> <p>Use iodine alcohol (5 %)</p>	
4.2	<p>Pout iodine alcohol in the palm and massage the navel region</p> <p>Throw out the gloves after use</p>	

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5. Calves - Teach the new born calf to drink (📌)

5.1 **Feed ___* litres colostrum twice a day for ___(1-4) days, hereafter milk**

*Large breed: min. 4 litres of colostrum

*Jersey: min. 3 litres of colostrum

Calves that have received 3-4 litres colostrum at their first feeding are to be served more milk when they have an appetite during the first day



5.2 **From the calf's 2nd day, feed as follows:**

- Calf mix according to appetite
- Hay in straw hedge
- Cow mix from _____(2) weeks of age
- Water


Newborn calves to start with a little handful of calf mix. Continue according to appetite



5.3 **The calf must have fresh drinking water after the first 24 hours**

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5.4  Give fresh perhaps luke-warm drinking water

at _____ , at _____


at _____ , at _____

(after milk feeding)



5.5  The calf must be fed whole milk (or organic milk powder) for the first 3 months of its life.




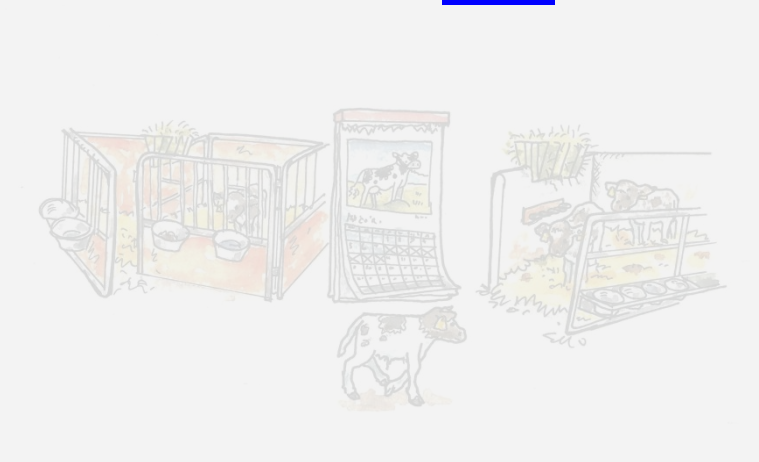
5.6  The calf must have access to dummy teat/suck pail in the milk feeding period.

Minimum one teat per calf.



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5.7  The calf may only be housed in individual hut/box the first 7 days of its life.



5.8



When the calf is 8 days old it must be housed in shared huts/boxes with 2 or more calves



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6a. Calves - Milk feeding (🗣️)

6.1a **Heat milk to 42-45 °C in milk wagon with milk heater, so the temperature in the calf's bowl is 40-42 °C**

When souring:

Add _____ (10 g milk sourer) per ____ (25) litres of milk



Milk sourer must be permitted for organic farming



6.2a **Replace dirty bowls with clean ones**

Feed milk twice a day

Single huts = ____* litres per calf per feeding

Shared huts = ____* litres per calf per feeding

*Large breed: min. 4 litres of milk

*Jersey: min. 3 litres of milk



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6b. Calves - Feeding with calf milk replacer (S)

6.1b **Choose the desired amount of milk**
Read off the amount of water and powder in the mixing table for the concentration

_____ (140 g/litre)

Fill 25% of the water in the milk wagon

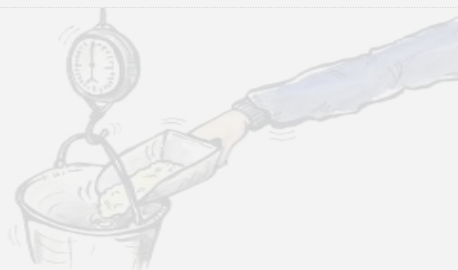
The water should be 50-55 °C



Milk replacer must be organic

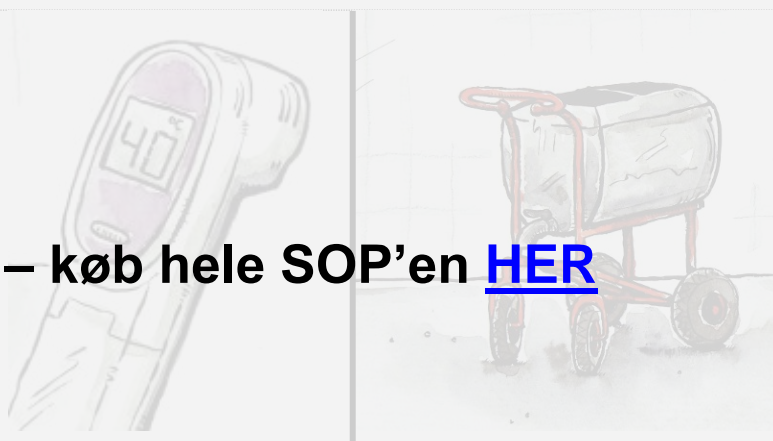
6.2b **Weigh milk powder**

Then add the milk powder in the wagon. Stir mechanically for approx. 5 minutes



6.3b **Add warm / cold water until the water volume matches the powder volume**

Check that the milk mixture has a final temperature of 42-45 °C, so the temperature in the calf's bowl is 40-42 °C



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6.4b **Replace dirty bowls with clean ones**

Feed milk twice daily

Single huts = ____* litres per calf per feeding

Shared huts = ____* litres per calf per feeding

*Large breed: min. 4 litres of milk

*Jersey: min. 3 litres of milk



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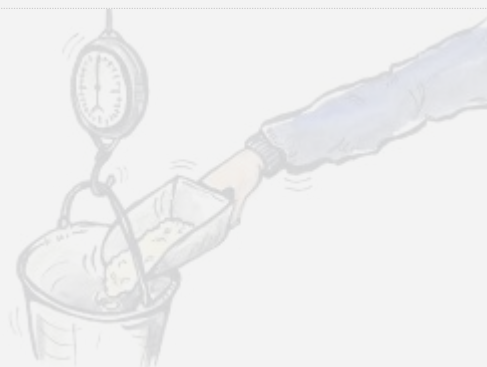
6c. Calves - Feeding with milk/milk replacer

6.1c **Choose the desired amount of milk**
Read off the amount of water and powder in the mixing table for the concentration _____ (140 g/litre)

Fill 25 % of the water in the milk wagon
The water should be 50-55 °C



6.2c **Weigh milk powder**
Then add the milk powder in the wagon. Stir mechanically for approx. 5 minutes



6.3c **Add the surplus milk (full-cream milk)**
Add warm / cold water until the water volume matches the powder volume

Check that the milk mixture has a final temperature of 42-45 °C, or the temperature in the calf's bowl is 40-42 °C



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6.4c

Replace dirty bowls with clean ones

Feed milk twice daily

Single huts = ____* litres per calf per feeding

Shared huts = ____* litres per calf per feeding




*Large breed: min. 4 litres of milk

*Jersey: min. 3 litres of milk



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6d. Calves - Feeding with pasteurized milk

<p>6.1d</p>	<p>Collect milk (surplus milk/ from milk tank)</p> <p>Wait for pasteurisation to finish</p>	
<p>6.2d</p>	<p>Replace dirty bowls with clean ones</p> <p>Feed milk twice daily</p> <p><u>Single huts</u> = ____* litres per calf per feeding</p> <p><u>Shared huts</u> = ____* litres per calf per feeding</p> <p>*Large breed: min. 4 litres of milk</p> <p>*Jersey: min. 3 litres of milk</p>	
<p>6.3d</p>	<p>Rinse container and hoses with lukewarm water (and possibly the buffer tank)</p> <p>Add cleaning agent</p> <p>Clean container and hoses with brush (and possibly filter and buffer tank)</p> <p>Flush all parts with high pressure water hose</p>	

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6.4d **Connect the pasteurisation container**



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7. Calves - Solid feed and water

7.1	<p>Fill the empty milk bowls with lukewarm water</p>	
7.2	<p>Replace dirty bowls (manure residues)</p> <p>Remove residues and distribute calf mix daily</p> <p>Also evaluate if the straw feed is appetizing</p>	
7.3	<p>From the calf's 2nd day, feed as follows</p> <ul style="list-style-type: none"> • Calf mix according to appetite • Hay in straw hedge • Cow mix from _____ (2) weeks of age • Water <p>Newborn calves should be fed with a little handful of calf mix. Continue according to appetite</p>	

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8. Calves - Spread bedding in pens/huts

8.1 **Spread bedding in pens as needed, 1-2 times a day**

The bedding needs to be dry

This applies both to single and shared pens.

Note! Spread bedding often among calves with diarrhoea



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9. Calves - Observe illness (🚨)

<p>9.1 Observe at every feeding</p> <p>That the calf drinks the milk 😊</p> <p>That the calf seems well and does not have smelly manure 😊</p>	
<p>9.2 🚨 The calf does not drink or is ailing →</p> <p>Take calf's temperature: 37-39.3 °C → 😊 above 39.3 °C → 🚨 35-37 °C → 🚨</p> <p>🚨 Go to SOP 11 and 12</p>	
<p>9.3 Calves with normal temperature which do not drink</p> <p>Feed 2-3 litres 40-42 °C warm milk with bottle. If the calf doesn't drink then use probe.</p> <p>Pour lukewarm water in bowl</p>	
<p>9.4 Observe at every 2-3 hours</p> <p>Vil du vide mere – køb hele SOP'en HER</p> <p>If the calf is unwell, sunken eyes, hanging ears, slack skin and if the water is untouched, give 2-3 litres of electrolyte using bottle/probe</p> <p>Mixture ratio: ___ measure cup in ___ litres water 40-42 °C</p>	

Feed _____ (8-12) litres electrolyte per day, minimum _____ (½ hour) before feeding with milk.

Continue to give the calf milk twice a day and take temperature. Continue treatment until the calf drinks.



Ø.3

The use of electrolytes is allowed and must always be organic.

Move the calf to a single hut and note the date and cause in the livestock records. (lies in _____)



9.5

Note the calf's number on _____ (board, whiteboard)

State your suspicion:

- Pneumonia
- Diarrhoea
- Navel infection
- Other?

If other _____ (name, phone)

Mark pen with _____ (red strip)



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9.6

Biosecurity

Calves that are ill **and** under treatment can be isolated in calves sick pen.

Consult with a veterinarian!



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10. Probe feeding sick calves

10.1	<p>Place the bag in the container The bag should be placed, so the penetration does not go through the edge.</p> <p>Put on the clamp and avoid air in the bag</p>	
10.2	<p>Connect through the bag using the sharp end</p> <p>Penetration should be quick, to avoid leaks.</p>	
10.3	<p>Turn the calf's head a bit to the right. Place the probe while the calf's muzzle is in level with the ears or just below</p> <p>The calf shall swallow the probe without force</p>	
10.4	<p>Feel the probe in the calf's upper left neck region If the calf coughs, the probe is placed incorrectly. Some calves will roar when the probe is positioned correctly</p> <p>Open up the milk slowly When half of the milk has been consumed the probe is closed for 10 seconds. The rest of the milk should be given at half speed</p>	

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10.5 **Close the probe on “on/the probe slowly**

Remember thorough cleaning after use!






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11. Calves – Diarrhoea (🚫)



<p>11.1 Diarrhoea:</p> <p>The calf has light and/or thin manure. The smell is often bad</p>	
<p>11.2 Feed 2-3 litres 40-42 °C warm milk in a bowl or with bottle or probe</p> <p>Pour lukewarm water in bowl</p>	
<p>11.3 Observe the calf every 2-3 hours</p> <p>If the water is untouched, give 2-3 litres of electrolyte using bottle/probe</p> <p>Mixture ratio: ___ measure cup in ___ litres of water 40-42 °C</p> <p>Continue to give milk twice a day and take temperature. Feed 8-12 litres of electrolyte per day minimum _____ (½ hour) before feeding with milk. Continue treatment until the calf drinks.</p>	

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<p>11.4 Note the calf's number on _____ (board, whiteboard)</p> <p>Mark pen with _____ (red strip)</p>	
<p>11.5 Biosecurity</p> <p>Calves that are ill and under treatment can be isolated in calves sick pen.</p> <p>Consult with a veterinarian!</p>	
<p>11.6  All treatments with medication must be started by a vet.</p> <p>Organic farmers may not treat animals the first time.</p> <p>Treatments must be entered in the livestock records.</p> <p>(lies Vil du vide mere – køb hele SOP'en HER</p>	

12. Calves - Lung infection and other disorders (🗨)

<p>12.1 Lung infection: The calf often has nasal discharge and difficulties breathing, is short of breath and coughing</p> <p>Start treatment according to the vet's advice</p> <p>Feed milk twice a day, if the calf does not drink (see SOP 9)</p>	
<p>12.2 Calves with other disorders as:</p> <ul style="list-style-type: none"> • Navel infection • Arthritis • Tympanites • Other <p>Treat according to the vet's advice</p>	
<p>Ø.4 All treatments with medication must be started by a vet.</p> <p>Organic farmers may not treat animals the first time.</p> <p>Treatments must be entered in the livestock records. (lies in _____)</p>	<p>Vil du vide mere – køb hele SOP'en HER</p> 

<p>12.3 Note the treatment and calf's number on</p> <p>_____</p> <p>(in medicine registration schedule or on white-board)</p> <p>Mark pen with _____</p> <p>(red strip)</p>	
<p>12.4 Biosecurity</p> <p>Calves that are ill and under treatment can be isolated in calves sick pen.</p> <p>Consult with a veterinarian!</p>	

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13. Calves - Hygiene equipment for milk and feed


<p>13.1</p>	<p>Clean all colostrum feeding equipment thoroughly after use (bowls, bottles, probes, hoses, buckets, etc.)</p> <p>Rinse first in cold water</p> <p>Wash hereafter with warm water added cleaning agent., Use a brush</p> <p>Put up to dry</p>	
<p>13.2</p>	<p>Clean all milk equipment thoroughly after use (milk wagon, milk heater, buckets)</p> <p>Rinse first in cold water</p> <p>Wash hereafter with warm water added cleaning agent, use a brush</p> <p>Leave it to dry</p>	
<p>13.3</p>	<p>Clean other feeding and milk equipment as needed and at least once a week (troughs, feed boxes, bowls, teat buckets, etc.)</p> <p>If manure is found, clean immediately</p> <p>Rinse first in cold water</p> <p>Wash hereafter with warm water added cleaning agent. use a brush</p> <p>Leave it to dry</p>	

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14. Calves - Pen hygiene (newborn calves) (S)

14.1	<p>Place the newborn calf in cleaned pen / hut</p>	
14.2	<p>Cleaning the pen / hut</p> <p>Remove manure from pen/hut</p> <p>Rinse and let all surfaces soak, preferably with soap</p> <p>Wash</p> <p>___ (mark X) with water and brush</p> <p>___ (mark X) with pressure washer in separate washing area.</p> <p>Disinfect all surfaces (possibly with lime)</p> <p>Leave it to dry</p>	

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<p>14.3</p>	<p>Spread plenty of bedding in the pen</p> <p>The bedding needs to be dry and draught free for the calf</p>	
<p>14.4</p> 	<p>Approved products for cleaning and disinfection of buildings and installations etc.</p> <p>(Active substances not trade names)</p>	<ul style="list-style-type: none"> • Potassium and sodium soap • Water and steam • Milk of lime • Lime • Quicklime • Sodium hypochlorite (e.g. as liquid bleach) • Caustic soda • Caustic potash • Hydrogen peroxide • Natural essences of plants • Citric, peracetic acid, formic, lactic, oxalic and acetic acid • Alcohol • Nitric acid (dairy equipment) • Phosphoric acid (dairy equipment) • Formaldehyde • Cleaning and disinfection products for teats • Sodium carbonate

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15. Calves - Mark pen (🗨)

15.1	<p>Marked with _____ (green strip)</p> <p>Feed the calf with colostrum</p>	
15.2	<p>Marked with _____ (red strip)</p> <p>The calf is in treatment</p> <p>Feed:</p> <ul style="list-style-type: none"> • Electrolyte • Antibiotics • Other _____ <p>Calves that are ill and under treatment can be isolated in calves sick pen.</p> <p>Consult with a veterinarian!</p>	
15.3	<p>All treatments with medication must be escorted by a vet.</p> <p>Organic farmers may not treat animals the first time.</p> <p>Treatments must be entered in the livestock records. (lies in _____)</p>	<p>Vil du vide mere – køb hele SOP'en HER</p> 

Mixing table for calf milk replacer





With 130 g/litre			With 140 g/litre		
Water. litres	Powder. kg	Prepared milk. litres	Water. litres	Powder. kg	Prepared milk. litres
9.0	1.3	10	8.9	1.4	10
13.5	2.0	15	13.4	2.1	15
18.0	2.6	20	17.8	2.8	20
22.5	3.3	25	22.3	3.5	25
27.0	3.9	30	26.7	4.2	30
31.5	4.6	35	31.2	4.9	35
36.0	5.2	40	35.6	5.6	40
40.5	5.9	45	40.1	6.3	45
45.0	6.5	50	44.5	7.0	50
49.5	7.2	55	49.0	7.7	55
54.0	7.8	60	53.4	8.4	60
58.5	8.5	65	57.9	9.1	65
63.0	9.1	70	62.3	9.8	70
67.5	9.8	75	66.8	10.5	75
72.0	10.4	80	71.2	11.2	80
76.5	11.1	85	75.7	11.9	85
81.0	11.7	90	80.1	12.6	90
85.5	12.4	95	84.6	13.3	95
90.0	13.0	100	89.0	14.0	100
99.0	14.3	110	97.9	15.4	110
108.0	15.6	120	106.8	16.8	120
117.0	16.9	130	115.7	18.2	130
126.0	18.2	140	124.6	19.6	140
135.0	19.5	150	133.5	21.0	150
144.0	20.8	160	142.4	22.4	160
153.0	22.1	170	151.3	23.8	170
162.0	23.4	180	160.2	25.2	180
171.0	24.7	190	169.1	26.6	190
180.0	26.0	200	178.0	28.0	200
198.0	28.6	220	195.8	30.8	220
216.0	31.2	240	213.6	33.6	240
234.0	33.8	260	231.4	36.4	260
252.0	36.4	280	249.2	39.2	280
270.0	39.0	300	267.0	42.0	300
288.0	41.6	320	284.8	44.8	320
306.0	44.2	340	302.6	47.6	340
324.0	46.8	360	320.4	50.4	360

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16. Organic requirements – overview

<p>16.1 (Ø.1) </p>	<p>Cow and calf must be together at least 24 hours after calving</p>	
<p>16.2 (Ø.2) </p>	<p>Requirements for box area Young calves up to 100 kg must have at least 1.5 m² of indoor area per calf.</p> <p>At least 0.75 m² must be solid floor.</p> <p>Calves in individual boxes must have physical contact with other calves.</p>	
<p>16.3 (5.3) </p>	<p>The calf must have access to fresh drinking water after the first 24 hours</p>	

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<p>16.4 (5.4)</p> 	<p>Give fresh perhaps luke-warm drinking water</p> <p>at _____ , at _____</p> <p>at _____ , at _____</p> <p>(after milk feeding)</p>	
<p>16.5 (5.5)</p> 	<p>The calf must be fed whole milk (or organic milk powder) for the first 3 months of its life.</p>	
<p>16.6 (5.6)</p> 	<p>The calf must have access to dummy teat/suck pail in the milk feeding period.</p> <p>Minimum one teat per calf.</p> <p>Vil du vide mere – køb hele SOP'en HER</p>	

16.7
(5.7)

The calf may only be housed in individual hut/box the first 7 days of its life.



16.8
(5.8)

When the calf is 8 days old it must be housed in shared huts/boxes with 2 or more calves



16.9
(6.1a)

Heat milk to 42-45 °C in milk wagon with milk heater, so the temperature in the calf's bowl is 40-42 °C

When souring:
Add _____ (10
g milk s _____ litres of
milk

Milk sourer must be permitted for organic farming.

Souring agent




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16.10
(6.1b)


Choose the desired amount of milk
Read off the amount of water and powder in the mixing table for the concentration _____ (140 g/litre)

Fill 25 % of the water in the milk wagon
The water should be 50-55 °C

 Milk replacer must be organic.




16.11
(Ø.3)

 **The use of electrolytes is allowed and must always be organic.**

Move the calf to a single hut and note the date and cause in the livestock records.
(lies in _____)



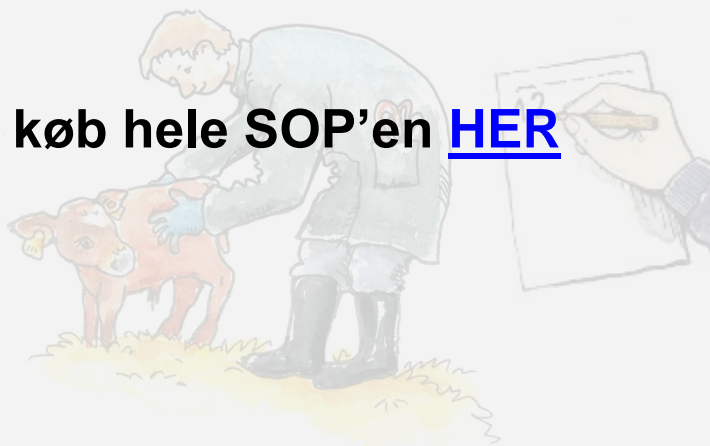
16.12
(11.6)
(Ø.4)
(15.3)


 **All treatments with medication must be started by a vet.**

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Organic farmers may not treat animals the first time.

Treatments must be entered in the livestock records.
(lies in _____)



<p>16.13 (14.4)</p> 	<p>Approved products for cleaning and disinfection of buildings and installations etc.</p> <p>(Active substances not trade names)</p>	<ul style="list-style-type: none">• Potassium and sodium soap• Water and steam• Milk of lime• Lime• Quicklime• Sodium hypochlorite (e.g. as liquid bleach)• Caustic soda• Caustic potash• Hydrogen peroxide• Natural essences of plants• Citric, peracetic acid, formic, lactic, oxalic and acetic acid• Alcohol• Nitric acid (dairy equipment)• Phosphoric acid (dairy equipment)• Formaldehyde• Cleaning and disinfection products for teats and milking facilities• Sodium carbonate
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