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S.B.P. Kit

The **S**ingle **B**ottle **P**asteuriser was developed for use by health workers and mothers where there is a danger of transmitting HIV and/or other infections to infants.

considerations

Microbial / Antimicrobial¹

Cost

Ease of use

ACE InterMed has developed a cost effective, ready to use kit that will pasteurise a small quantity of human milk (50 to 200ml) at 60.0 degC for 30 mins. Test results show the prediction of pasteurising temperature to be in the order of +/- 2 degC. The kit requires in addition to the items supplied, only boiling water. **No electricity or batteries are required.**

Ref

1. Microbial contaminants and antimicrobial properties of human milk, JT May, Microbiological Sciences Vol.5, No. 2, 1988.

S_B_P Operating Instructions

Kit Contents

1. Pasteurising container (flask)
2. Milk container with strip thermometer fitted
3. Cooling beaker
4. Measuring beaker
5. Timer
6. Water chart for 50 / 200ml quantity
7. Water chart for 100 / 200ml
8. Pasteurising record chart
9. Final Temperature indicator
10. This document

You will need

1. Expressed breastmilk that is at 15 to 25 degrees centigrade.
2. Clean water that is also at 15 to 25 degrees centigrade.

Pasteurising method.

Pre warm the flask (1).

Measure 500 mls water using the cooling beaker (3). Bring to boil in saucepan and add to flask. Close lid and leave until ready to pasteurise the milk.

Measure breastmilk for pasteurising.

Pour breastmilk into bottle (2), . Add or remove breastmilk to make the volume the same as one of the volumes on the water chart wheel (6 or 7). note the volume and the temperature of the breastmilk and record on chart (9).

Bring milk to required temperature.

Place bottle (2) containing the measured breastmilk into cooling beaker (3), fill beaker (3) with clean water and leave for 15 minutes.

Determine required volumes of water.

Choose the water chart wheel that corresponds to the volume of breastmilk to be pasteurised.

If boiling water only is required, (water chart (7) 100 mls or 200 mls breastmilk only) measure the volume of water required and bring to the boil.

If a combination of boiling water and cool water is required, measure each volume (water chart (6) and heat water for boiling.

Pasteurising the breastmilk.

Empty the flask (1), add first the cool water, then the boiling water. Place the bottle (2) containing breastmilk into the flask (1). Close lid tightly. Set timer (5) to 35 minutes.

Gently agitate the pasteurising flask (1) once every minute for 5 minutes.

When the bell rings, remove bottle from flask.

Temperature check.

As soon as bottle (2) is removed from flask (1), wipe bottle dry and attach Final Temperature indicator label (9) below the level of the milk. Place milk container back into flask (1), wait for 10 seconds and remove. The Final Temperature indicator label should have changed colour indicating that the temperature of the water in the flask (1) is above 58 degrees centigrade. This in turn confirms that the milk has been heated to the correct temperature. Remove Final Temperature indicator label from bottle and add to record chart (9).

Cooling the breastmilk

Fill cooling beaker (3) with cold water, iced if possible and add bottle (2) to cool breastmilk. Replace cold water if necessary until milk is at required temperature.