

Milk Bank Pasteurization Process



Donor is screened via telephone by Milk Bank Registered Nurse/ Lactation Consultant



Once approved, milk is expressed and put into containers appropriate for donation



Milk is frozen and stored at home no warmer than -18°C

Unable to be used at Milk Bank if:

- > 3 months (fridge-freezer)
- > 6 months (chest/separate freezer)



Bacterial pre-culture is done



Milk arrives at Milk Bank and frozen at -20°C



Frozen human milk placed in insulated boxes provided by Milk Bank and shipped with courier



Selected combination of 3-5 donor deposits are thawed overnight and pooled in 5L glass beakers



Pooled milk is dispensed into plastic bottles and sealed for pasteurization

Sterilized Pasteurizer



Bottles are submerged into pasteurizer heated to 62.5°C and held for 30 minutes



Bottles are rapidly cooled to 4°C



Bacterial Culture Post-pasteurization is conducted (1 bottle)



Medical director approval of batch if no bacterial growth

Bottles are labelled with Batch ID and placed in -20°C 'Hold' Freezer

Temperature Data Log (Holding time at temperature confirmation)

Unable to dispense if:

- Bacterial culture fails
- Any Bacillus bacteria cultured
- Temperature graph $< 62.5^{\circ}\text{C}$ for 30 minutes



The pasteurized milk is placed in long-term storage (-20°C) -ready to dispense via hospital purchase order



Courier distribution to hospitals



Expiry date 6 months post pasteurization date



Sinai Health

Rogers Hixon Ontario Human Milk Bank