

QUICK GUIDE - BACT GRAM NEG/POS

PREPARATION

Note the cow number, gland and date on the sample container.
It is recommended to use gloves.

SAMPLING OF MILK SAMPLE



Clean and wipe of the gland. Wait 15 seconds.

Milk directly into the sample container and close the lid.

The milk sample shall be applied as soon as possible to the BACT. Do not cool or freeze the milk before applying on BACT.

APPLICATION OF MILK SAMPLE



The BACT chip is placed on a horizontal surface.

Make use of the accompanying disposable pipette to fill adequate milk volume into the pipette and dispense this volume into the round inlet on BACT.

(Press the pipette bulb firmly during pipette filling and again during dispensing)



When the milk is visible in the square indicator fields on BACT, then move BACT to the mini-incubator.

BACT should always be handled in a horizontal position when filled.

MINI-INCUBATOR



The mini-incubator holds one BACT.

When plugged in and the light inside the mini-incubator flashes, it is ON.

Any color change in the indicator fields will take place after 6-16 hours depending on bacterial type and bacteria concentration.

A color change in the top indicator field on BACT, indicates bacterial growth in the milk sample.

Please note that certain bacterial types (e.g. Klebsiella) induces bubbles during the incubation phase, which could result in non-homogenously colored indicator field.

RESULT

TOP INDICATOR FIELD

If the top indicator field remains **blue** after 16 hours of culture (+ 16 hours), there is no bacterial growth in the milk sample tested.

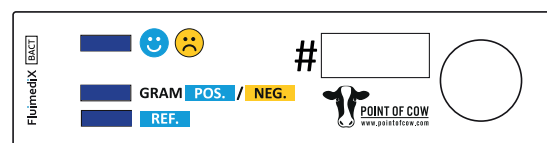
A color shift from **blue** to **yellow** in the top indicator field indicates bacterial growth in the milk sample tested.

BOTTOM INDICATOR FIELD

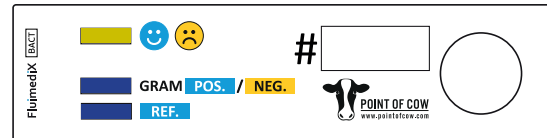
The bottom indicator field is a REFERENCE field that defines the color **blue** in relation to the specific sample, as the color may vary depending on the fat content and type of bacteria in the milk.

MID INDICATOR FIELD

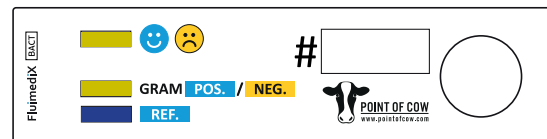
In case of bacterial growth, you can determine if the type of bacteria is Gram-negative or Gram-positive based on the color in the mid indicator field:



NO GROWTH



GRAM-POSITIVE



GRAM-NEGATIVE

GUIDELINE

Guidelines for treatment of mild mastitis are:

-If NO GROWTH or Gram-negative - typically no treatment with antibiotics.

-If Gram-positive - treatment using antibiotics will typically be administered.

Any decision on treatment based on the BACT result should be done in collaboration with the veterinarian.