QUICK GUIDE

MastiSensor® KIT098 · KIT117

Bovine mastitis · 25 µL of cow's milk

8 targets incl. *blaZ* resistance gene | LAMP · 40-minute run | Veterinary use only

Before you start



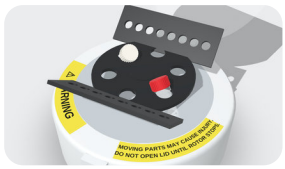
a Choose a **clean, dry** work area and put on **new powder-free gloves**.



b **One pouch = one test.** Take one pouch out of the refrigerator; the rest of the kit stays at **2–8 °C**.



c Switch on both **HeatSensors** (**LYS 37 °C**, **DIL 70 °C**) and the **ReadSensor LAMP**. Wait for **OK**.



d Spin the **red-cap** and **white-cap** tubes briefly to bring the liquid down.

Milk sample

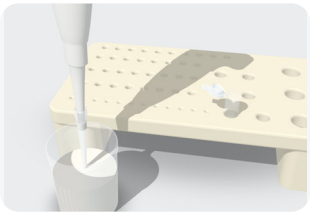
fresh, refrigerated or frozen cow's milk



- Collect the milk aseptically, following the sampling recommendations of the user manual.
- Homogenise the milk before pipetting; if it has clots, centrifuge it and pipette from the liquid phase.
- One test needs **25 µL** of milk.

Within 2 h	Within 24 h	Otherwise, freeze
not refrigerated	refrigerated, below 4 °C	below −20 °C, max. 1 month

1 Lysis





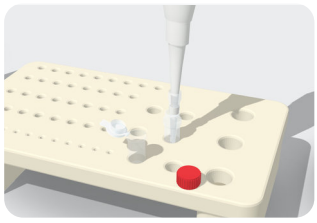


- With the 20–200 µL pipette, put **25 µL of milk** into the **lysis tube** (lysis bead inside).
- Close the tube and vortex for **3 s**.
- Place it in the HeatSensor, **LYS program, 37 °C**, and press **Start/Stop**.

20 min

Reagents can be used straight from the refrigerator: no need to bring them to room temperature.

2 Dilution





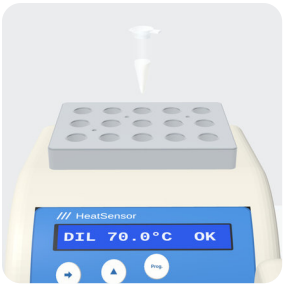
⚠ **WARNING:** corrosive substance. Risk of burns. Wear eye protection (safety glasses) and gloves.

- At the alarm, press **Start/Stop** and take the tube out.
- Open the lysis tube and the red-cap tube. With the 100–1000 µL pipette, add **475 µL of dilution buffer** to the lysis tube. Close both tubes and vortex for **3 s**.
- Place the lysis tube in the HeatSensor, **DIL program, 70 °C**, and press **Start/Stop**.

5 min

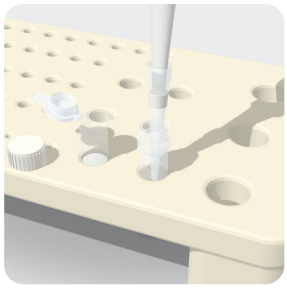
Steps 3 to 7 overleaf →

3 Cool down



- At the alarm, press **Start/Stop** and take the tube out.
- Let it cool for **3 min** at room temperature, then vortex for **3 s**.

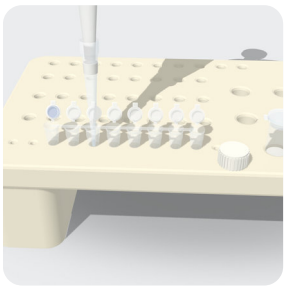
4 Resuspension



- Open the **white-cap tube**. With the 20–200 µL pipette, transfer **50 µL** from the lysis tube into it.
- Close and vortex for **3 s**.

Optional pause: the white-cap tube can wait up to 24 h in the refrigerator.

5 Fill the strip



⚠ From now on, work without delay: load and run the strip **within 5 min** of filling it.

- Open the 8 lids.
- Transfer **25 µL** from the white-cap tube into **each of the 8 tubes**.

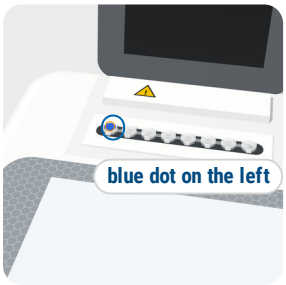
⚠ Never touch the reagent bead with the tip. If you do, change the tip.

6 Vortex and spin



- Close the 8 lids.
- Vortex the strip for **3 s**, moving it so that every tube is mixed.
- Centrifuge for **5 s** with a balance strip opposite (an empty strip is enough).

7 Run the test

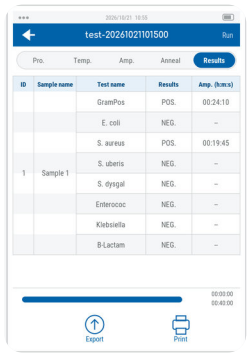


- Insert the strip with the **blue dot on the left** and close the cover.
- Select **Masti098** (KIT098) or **Masti117** (KIT117), enter the sample details and press **Run**.

40 min, automatic

⚠ A reversed strip assigns results to the wrong targets.

Read the result



- **Results** tab: **POS.** or **NEG.** for each target (read automatically). Positives may show before the run ends.
- KIT098: *S. aureus* also turns the Gram Pos tube positive.
- No positive control. **All 8 negative?** Repeat the test; if negative again, the sample is considered free of the tested targets.

Targets detected blue dot = tube 1	Tube	1	2	3	4	5	6	7	8
	KIT098	Gram-positive bacteria	*E. coli*	*S. aureus*	*S. uberis*	*S. dysgalactiae*	*Enterococcus* spp.	*Klebsiella* spp.	*blaZ* gene (β-lactamase)
	KIT117	*Mycoplasma bovis*	*E. coli*	*S. aureus*	*S. uberis*	*S. dysgalactiae*	*S. agalactiae*	*Klebsiella* spp.	*blaZ* gene (β-lactamase)

⚠ **Never open the PCR tubes** after the reaction (contamination risk).

Never use reagents past their expiry date.

New gloves for each analysis; filter tips only.

Store the kit at 2–8 °C.

This quick guide does not replace the user manual. Read the MastiSensor® KIT098 · KIT117 user manual in full before first use.

Support: **support@unisensor.be** · unisensor.be

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