

User guide for AMR DetectTool device

Functions of the device:

A: sample processing

- filtration
- extraction
- incubation
- deposition (sample on the detection part)

B: AMR detection

Parts of the device:

Filtration part:

Upper part:



Cup:



Lower part:



Processing part:

Cap / plunger:



Cup:



Tank:



Detection part:

Cassette:



Strip:



Detection process

Sample preparation

Urine: no preparation required

Blood culture: mix 2 volumes of positive blood culture with 1 volume of lysis buffer. Let it react for a minimum of 2 minutes (possible up to 30').

Rectal swab: inoculate transport medium of the swabs into Brain heart infusion media supplemented with the appropriate antibiotic and incubate it 3 hours long.

Filtration

A: If sample volume $\leq 1,5$ ml

1. Insert the cup into the lower part
2. Add the sample into the cup
3. Close the filtration system with the upper part
4. Push the sample through the filter using a syringe full of air

B: If sample volume $\geq 1,5$ ml

1. Insert the cup into the lower part
2. Close the filtration system with the upper part
3. Aspirate the desired volume of sample and some air with a syringe
4. Push the sample and the air through the filter

Extraction

1. Remove the lower part
2. Transfer the cup in the tank and remove the upper part
3. Add 250 μ l extraction buffer in the cup
4. Screw the cap
5. Shake slightly the processing part

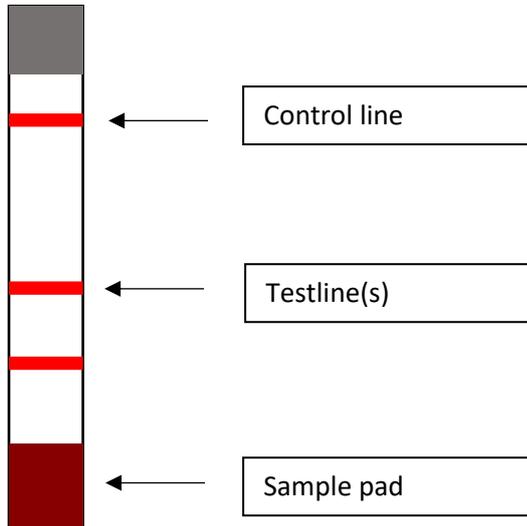
Detection

1. Place the processing part on the detection part
2. Break the bottom of the processing part by pressing it down
3. Read the result after 15-30 minutes

Evaluation

The strip contains:

- a control line to confirm that the test is working properly
- testline(s) - one or several lines depending on the test used



Read the result after 15 minutes

The control line must be visible: when the control line does not appear, the test is invalid

Absence of a testline -> NEGATIVE

Presence of a testline -> POSITIVE