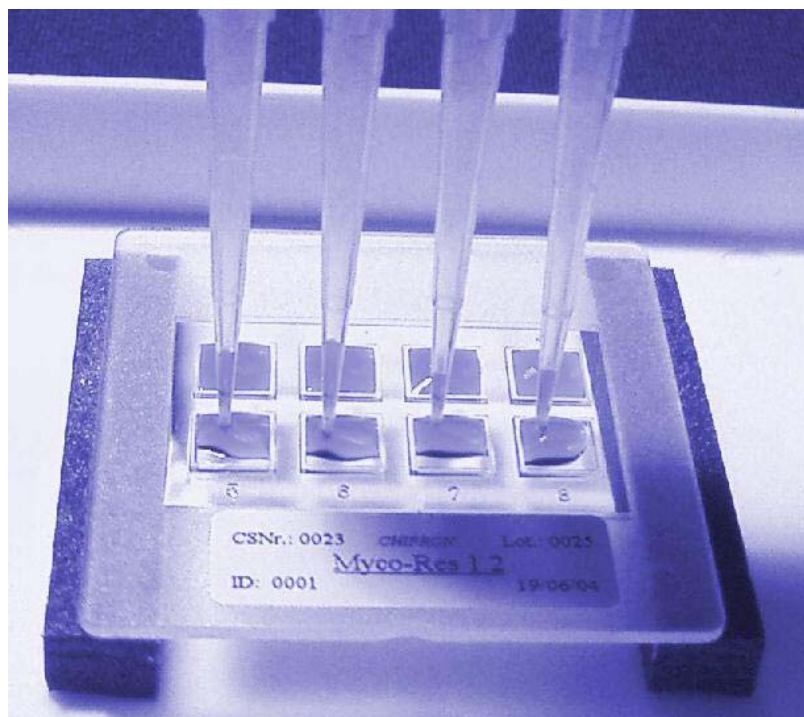


LCD-Array Photo Manual

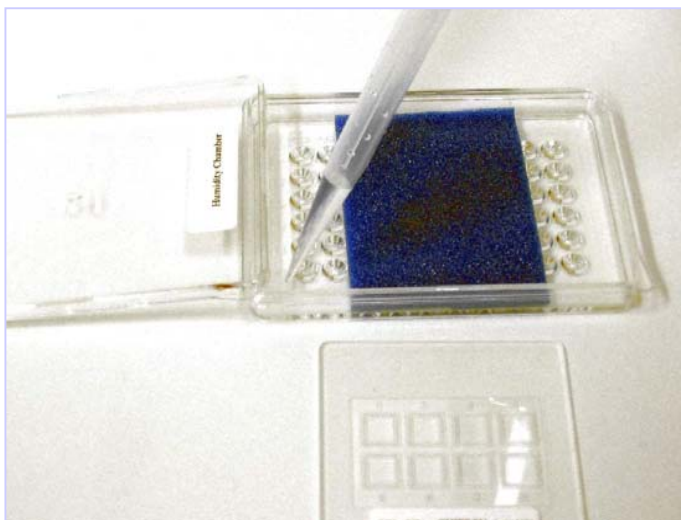


LCD-Array Kit Content



LCD-Array Protocol Steps

1 Humidity Chamber



- Dispense 250 μ l of water in one corner of the humidity chamber.

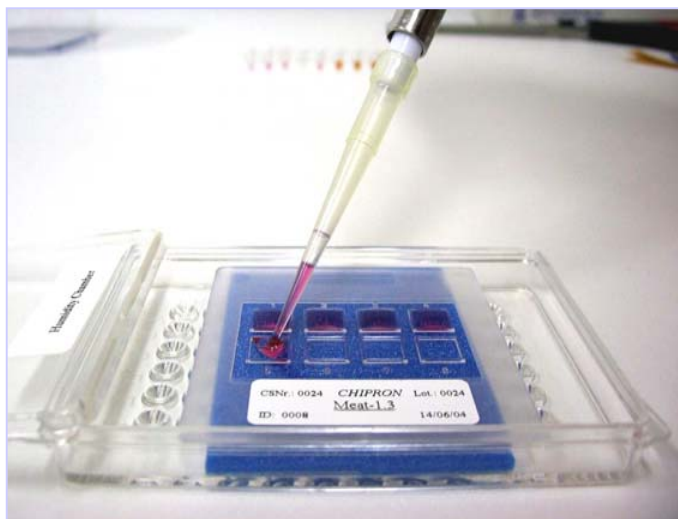
2 Hybridization Mix



- Preload each vessel of one 8-well strip with the appropriate amount of hybridization buffer.
- Add the appropriate amount of PCR reaction to the respective vessel and mix well by pipetting up and down.

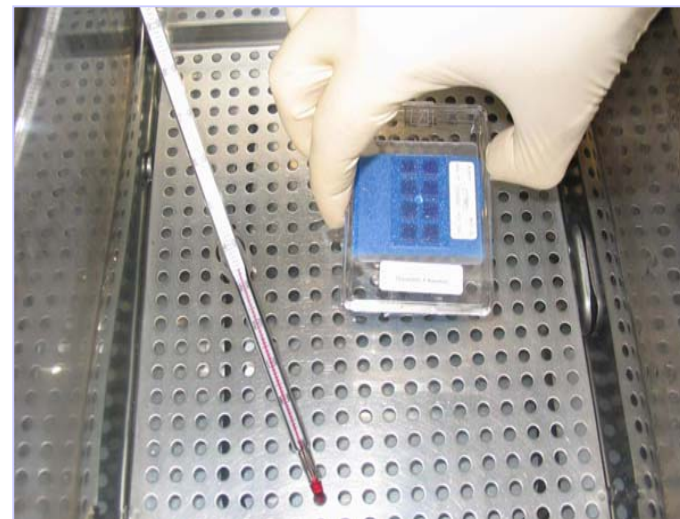
LCD-Array Protocol Steps

3 Chip Loading



- Place the chip in the center of the humidity chamber on top of the foam pad.
- Apply 30 μ l of the hybridisation mix to the respective field of the chip without touching the reaction zone with the pipet tip.

4 Incubation



- Close the humidity chamber with the lid and transfer the chamber to the preheated water bath or incubator.
- Incubate the slide for 30 minutes at the temperature indicated in the protocol.

LCD-Array Protocol Steps

5 Washing



- Submerge the chip in wash container 1 and move it slowly forward and backward for 10 sec.
- Transfer the chip to container 2 and repeat the procedure.

6 Washing



- Transfer the chip to container 3 and incubate for 1 min.
- Remove the chip from container 3 and drain excess liquid.

LCD-Array Protocol Steps

7

Drying



- Place the chip in a Chipron transport container and close the lid.

8

Drying



- Position the container in a centrifuge bucket and spin at ~ 1000 rpm for 1 min.
(use a second Chipron container as counter weight)

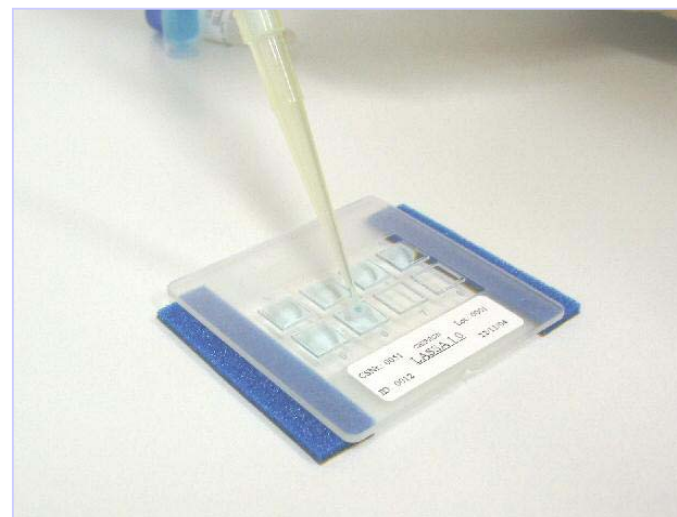
LCD-Array Protocol Steps

9 Label Mix



- Prepare the label mix for eight fields by combining 2 μ l of LABEL and 298 μ l of Label DILUTION Buffer

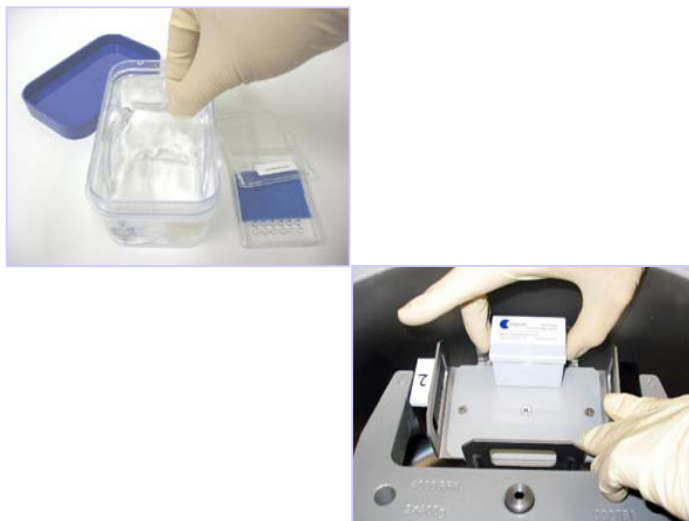
10 Labelling



- Apply 30 μ l of label mix to each field of the slide without scratching the surface with the pipette tip.
- Incubate for 5 min at room temperature

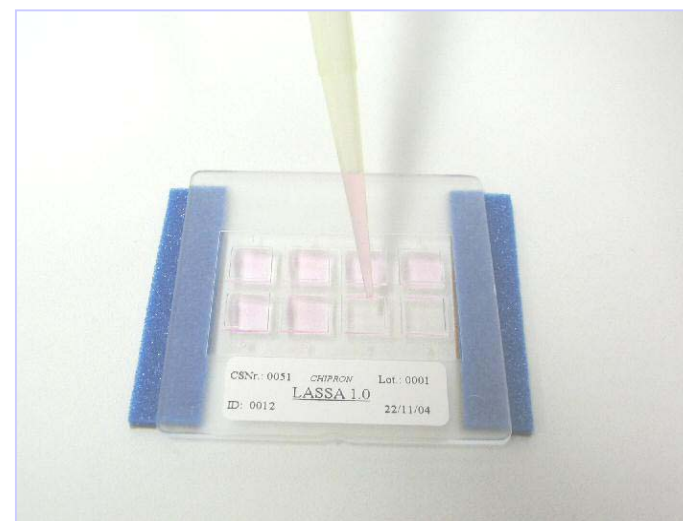
LCD-Array Protocol Steps

11 Wash + Drying



- Replace the wash solution in container 1-3 and repeat the wash procedure as under step 5 + 6.
- Dry the slide by centrifugation as under step 7 + 8

12 Apply Stain

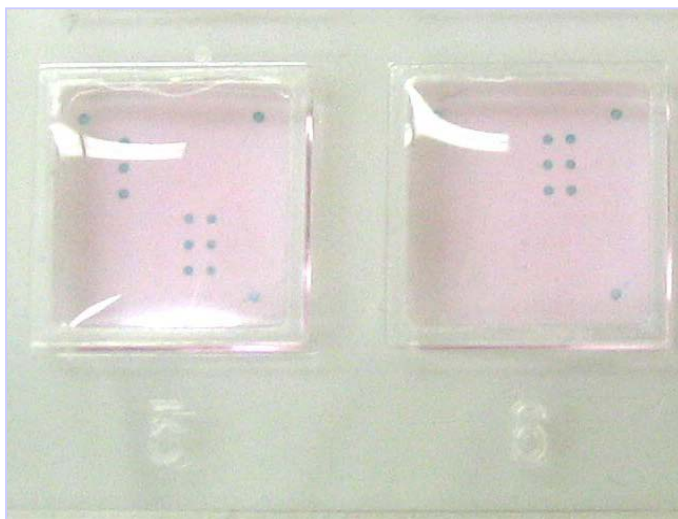


- Apply 30 μ l of STAIN to each field of the slide without scratching the surface with the pipet tip.
- Work fast since the optimal staining can be reached **within a minute** (depending on amplicon concentration)

LCD-Array Protocol Steps

13

Staining



- Carefully monitor the staining process and stop by rinsing the slide in wash container 3

14

Wash + Drying



- Rinse the slide shortly in wash container 3.
(use the same wash solution from step 11)
- Dry the slide by centrifugation as under step 7 + 8.

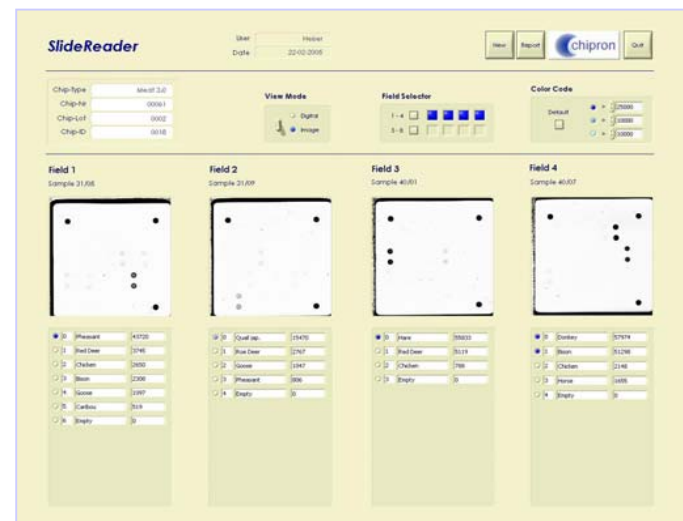
LCD-Array Protocol Steps

15 Scanning



- Scan the slide with the transmission light scanning device obtained from CHIPRON.

16 Analysis



- Analyze all eight fields simultaneously with the SlideReader software package obtained from CHIPRON.
- Store the data or use the report generator to save and print a comprehensive 'HTML'-report