Multispot Microscope Slides

for Immunofluorescence Assays (IFA) and Cell Culture

High quality glass slides with hydrophobic coatings provide the following application benefits:

- Self-draining surface
- Resistant to standard organic solvents or fixing agents (also Acetone!)
- Heat-resistant
- Autoclavable (20 minutes at 120 °C)
- Plain and frosted slide ends for individual markings

The wetting properties of the non-coated surface areas allow liquids to easily spread within the circles. For Cell Culture the slides have to be cleaned with deionised water or detergent followed by sterilisation.

Standard designs:

1. **Multispot Slides with 8 spots (diameter: 6 mm)**
   The space between the spots corresponds to the distance of the wells of standard microplates. Samples can be transferred directly to the slides with Multichannel Pipettes
2. **Multispot Slides with 8 spots offset (arranged in a zigzag pattern) (diameter: 6 mm)**
3. **Multispot Slides with 10 spots (diameter: 4 mm or 6 mm)**
4. **Multispot Slides with 12 spots (diameter: 5 mm)**
5. **Multispot Slides with 15 spots (diameter: 4 mm)**
   This version is particularly suitable for immunofluorescence.

The Multispot Slides are available as standard in red with a “Dunn” imprint.

Special designs according to your requirements (special charge)

- Spot number
- Spot diameter
- Colour (black, white, pale blue, dark blue, yellow, red)
- Choice of individual text
- Frosted or unfrosted end

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Directions for use

The following information briefly explains in a step by step procedure the use of Multitest Slides for cell culture and immunofluorescence.

CULTURE OF CELLS ON MULTITEST-SLIDES

1. Rinse the slides briefly in a warm detergent solution (e.g. 3 % “7X”), then successively in tap water and deionised water.
2. Sterilise the slides, preferably by using dry heat at 160 °C for 1 hour.
3. Place the slides in the bottom of a 90 mm diameter sterile petri dish*).
4. Prepare a suspension of cells in the appropriate medium at a concentration of approximately 5 x 10^4 cells/ml. Dispense 25 ml of the cell suspension into each petri dish, then incubate in a humid atmosphere of 5 % CO_2/air mixture overnight. The cells will only attach to the uncoated wells.

   Alternatively: Place 30 - 50 µl of a cell-suspension in medium at a concentration of approximately 1 x 10^5cells/ml in each uncoated well. Incubate the cells in humidified atmosphere for about 1 hour to let them pre-attach. Add 25 ml of the appropriate medium into each petri dish, then incubate in a humid atmosphere of 5 % CO_2/air.
5. When a confluent cell monolayer is achieved, the slides can be withdrawn from the petri dish and rinsed 2 - 3 times in successive charges of saline and then fixed. The method of fixation will vary according to the needs of the particular technique.

PREPARATION OF CULTURED CELLS FOR IMMUNOFLUORESCENCE (IFA) TESTS USING MULTITEST SLIDES

1. Decant the culture medium from a vessel containing a confluent monolayer of cells and replace it with Phosphate Buffered Saline (PBS) pH 7.2. Leave to soak for 10 minutes and then discard the PBS. Repeat the addition of fresh PBS at least three times.
2. Add a further 10 ml of PBS to the vessel, then scrape the cells off surface using a rubber cell scraper.
3. Transfer the cell suspension obtained to a conical centrifuge tube*) and spin at 300 - 400 g for 10 - 15 minutes. Resuspend the pellet in 10 ml of fresh PBS and centrifuge again.
4. Finally, resuspend the cell suspension obtained in a minimal volume of PBS so that a milky coloured suspension is obtained.
5. Using a Pasteur pipette (or Multichannel Pipette) dispense single drops of this cell suspension onto the wells of the Multitest Slides.
6. Incubate the slides at 60 °C until these drops evaporate to dryness.
7. Flood the slides with ice-cold acetone for 1 - 2 minutes. Discard the acetone and replace with fresh cold acetone for a further 5 - 10 minutes.
8. Air dry the slides. They are now ready for performing the IFA test. Alternatively, if the slides are to be stored for later use, they can be sealed in a box with silica gel at -20 °C for several weeks.

*) Petri dishes and tubes are also available from us.

Cat.-No.	Description	Quantity
40-408-06	8 spots, ∅ 6 mm	100/Box
40-488-06	8 spots, offset, ∅ 6 mm	100/Box
40-302-04	10 spots, ∅ 4 mm	100/Box
40-410-06	10 spots, ∅ 6 mm	100/Box
40-412-05	12 spots, ∅ 5 mm	100/Box
40-415-04	15 spots, ∅ 4 mm	100/Box