

## CytoDrop® Slides for Metaphase Chromosome Analysis

Provides Reliable, Uniform Sample Spreading Without Cleaning or Pretreatment



CytoDrop Slides are provided ready-to-use in packs of 50.

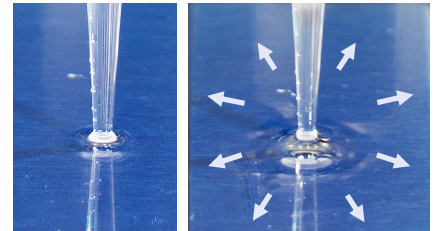
CytoDrop Slides are specially manufactured to provide a uniformly wettable surface, for even spreading of samples edge to edge, every time. No more "bad" slides where samples pool or form rivulets. The wettability of each lot is measured with a surface analyzer and checked for uniform sample flow using the Scorpion™ Slide Preparation Robot.

CytoDrop Slide packs are sealed to keep out moisture and are provided ready-to-use without pre-wetting or cleaning. Unopened slide packs retain uniform wettability for > 12 months.

For Research Use Only

### Slide Highlights:

- Reliable and uniform sample spreading
- Every slide a "good" slide; no slides stuck together
- Ready-to-use out of the box
- Drop samples without pre-wetting
- No cleaning or pretreatment needed
- Each lot tested for wettability

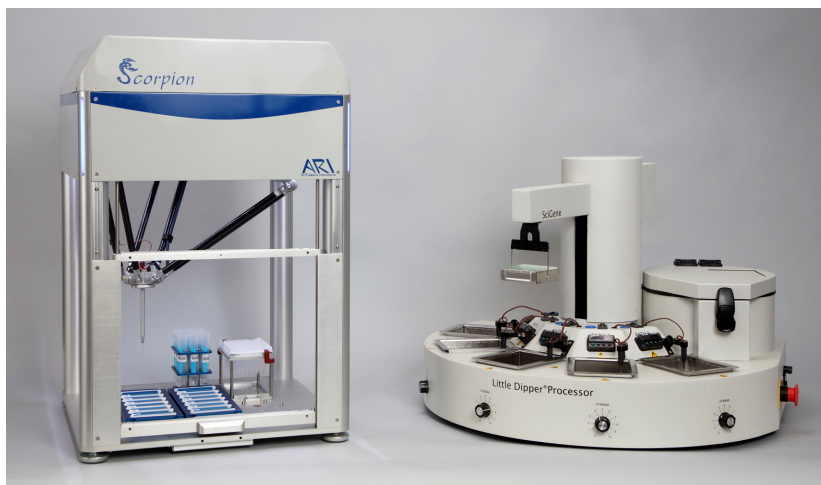


Cells spread evenly edge to edge, every time.

ORDERING INFORMATION		CATALOG #
CytoDrop Slides for Metaphase Chromosome Analysis, 50/pk.		2060-01-1
SPECIFICATION	DESCRIPTION	
Slides per pack	50	
Slide Dimensions	3.0 x 1.0 x 0.4 inches (75.5 x 25.5x1.0 mm)	
Shipping Weight	9 oz (250 g)	
Shipping Carton	13 x 9 x 7 inches (33 x 22 x 17 cm)	
Surface Wettability	Contact angle of water < 15 degrees	
RELATED PRODUCT	DESCRIPTION	
Scorpion™ Slide Preparation Robot	Automates slide preparation for G-banding and FISH.	
Little Dipper® Processor	Automates G-banding and FISH slide processing.	



Packs are sealed to keep out moisture.



The Scorpion™ Slide Preparation Robot and Little Dipper® Processor automate setup and G-Banding of CytoDrop Slides.

Little Dipper® Processor for FISH and G-Banding — METHODS

Pub. 153 Rev. J 0220

### Automated G-Banding of Metaphase Chromosomes

**Equipment Configuration**

Little Dipper Processor for FISH and G-Banding  
 Software ver. 10.000.010.1.1 (10/10/10) (10/10/10) (10/10/10)

For 24 Slides:  
 4x 24 position bath with air bars, 10/10/10 (Cat. # 1000-00-02)  
 2x 24 position slide racks (Cat. # 1000-20-5)

For 12 Slides:  
 4x 12 position bath with air bars, 10/10/10 (Cat. # 1000-00-01)  
 2x 12 position racks (Cat. # 1000-20-2)

**Stock Reagents**

1. Trypsin - 100x (1.0% Trypsin (10x) (pH=7.0))  
ThermoFisher cat. #1020056
2. Phosphate Buffered Saline (PBS) (pH 7.2)  
ThermoFisher cat. #P521 or similar
3. Giemsa - 1% (w/v) Giemsa stain solution  
ThermoFisher cat. #1020013
4. Fast Flow Serum (FFS) - various suppliers
5. G-H<sub>2</sub>O

**Instrument Set Up**

1. Using lab tape, label the four reservoir baths and place in positions #2 through 5. Bath #1 remains empty for slide rack loading.
2. Bath #2: empty
3. Bath #3: Trypsin in PBS
4. Bath #4: PBS with FFS
5. Bath #5: Giemsa in PBS

**Program the Processor**

1. Create a program for processing metaphase chromosome slides prepared from blood smears. **Slide Size** using the option screen and times shown in Table 1.
2. Prepare a program can be created for different sample types. Consult the Little Dipper Processor User Manual for instructions.

**Table 1. G-Banding Protocol for Little Dipper Processor**

Slide	Time	Volume	Temp	Flow	Time	Time
1	3	0	0	0	0	0
2	3	400	37	0	0	0
3	4	400	30	0	0	0
4	3	400	30	0	0	0
5	3	400	30	0	0	0
6	0	0	0	0	0	0

**Program the Processor**

1. Large for the 24 position slide rack - or -
2. Small for the 12 position slide rack

4. Load 12 position slide rack, with the same number of slides to be processed, in the red bracket.

*(Continued on next page)*

G-Banding Method Sheet available.