

# Morphology Staining Reference Sheet

## for Dimensions and Metrix Morphology Programs

### Staining and Slide Preparation Tips

- If stained smear is too light, increase the amount of time in Stain 1 and Stain 2 by identical amounts.
- If stained smear is too dark, decrease the amount of time in Stain 1 and Stain 2 by identical amounts.
- If the sample was extended in cryoprotectant lipids (e.g. egg yolk), the sample should be washed prior to making the smear. If the sample is not washed, the lipids will hold onto the stain, resulting in high levels of contrast.
- All morphology slides used with the Metrix Morphology program (non-rat version) **must be** coverslipped using a #1 coverslip.
- For easy coverslipping, place the slide, the #1 coverslip and mounting medium (e.g. Clear Mount) on a slide warmer to heat. This will minimize the occurrence of air bubbles.
- Place just a few small drops (3-4) of warm mounting medium either down the center of the slide **or** coverslip (do not put on both). Use of too much mounting medium will prevent viewing of the sample in the Metrix Morphology program.

### Diff-Quik Staining Times

*Note: The stain times listing below are starting points only and should be adjusted accordingly for best sample staining.*

**Animal** (Equine, Bovine, Porcine, Canine) – Metrix only

Stain Solution	Time (sec)
Fixative	30
Stain Solution 1	90
Stain Solution 2	90

**Human** – Metrix and Dimensions

Stain Solution	Time (sec)
Fixative	10
Stain Solution 1	20
Stain Solution 2	20

**Stat III Staining Times**

*Note: The stain times listing below are starting points only and should be adjusted accordingly for best sample staining.*

**Animal** (Equine, Bovine, Porcine, Canine) – Metrix Only

Stain Solution	Time (sec)
Fixative	20
Stain Solution 1	30
Stain Solution 2	30

**Human** – Metrix Only

Stain Solution	Time (sec)
Fixative	10
Stain Solution 1	10
Stain Solution 2	10

**Resources (USA)**

Product	Supplier	Catalog Numbers
Clear Mount	<u>American Master Tech</u> PO Box 2539 Lodi, CA 95241-2539 (800) 860-4073 www.mastertech.com	¼ oz: MMCLE1/4OZ (applicator tip) 100 ml: MMCLE100 Pint: MMCLEPT
Diff-Quik	<u>Dade Behring, Inc.</u> 1717 Deerfield Road Deerfield, IL 60015 800) 242-3233 www.dadebehring.com	Set (500 ml each): B4132-1A <u>Replacements</u> (2.5 L): Fixative: B4132-10A Solution 1: B4132-11A Solution 2: B4132-12A
Stat III	<u>MidAtlantic Diagnostics</u> 338 Stokes Road Medford, NJ 08055 (800) 648- 1151 www.midatlanticdiagnostics.com	<u>Animal Stain:</u> Stat-Pak (90 ml each): Stain Set (500 ml each): <u>Human Stain:</u> Stat-Pak (90 ml each): 85303 Stain Set (500 ml each): 85316 <i>Replacements also available</i>
Lab Supplies (slides, coverslips, pipets, etc.)	<u>Fischer Scientific</u> (800) 766-7000 www.fischersci.com <u>VWR Scientific</u> (800) 932-5000 www.vwrsp.com	See On-Line Catalog