

## Tissue Marking Dyes *Instructions for Use*

Product Numbers 27213, 27213-1, 27213-2, 27213-3, 27213-4, 27213-5



### DESCRIPTION

Tissue marking dyes are used to highlight microscopic areas of interest and to orient excised tissue samples sent to the histopathology laboratory. The dyes are specially formulated to be visible after performing frozen section and tissue processing and will not run, bleed, fade or change in color intensity.

### APPLICATION / INTENDED USE

Tissue marking dyes are used to identify and orient excised tissue samples and to withstand the rigors of tissue processing without bleeding, changing colors, or fading. They may be used on fresh or fixed tissues.

### MODE OF ACTION

Tissue marking dyes have cationic (positively) charged properties, which are attracted to the negatively charged, anionic tissue components forming strong ionic bonds. Once attached, these bonds are resistant to the exposure of tissue processing chemicals and other factors.

Some tissue components are amphoteric (neutrally charged) and will simply take up the dye by adsorption.

\*To greatly improve the adherence of the dyes to the amphoteric tissues, the use of ColorBond™ Tissue Margin Marking Dye Mordant is highly recommended. *See Ordering Information on reverse side.*

### PROCEDURE

**Tissue Marking Dyes are ready to use.**

**Shake the bottle of Tissue Margin Marking Dye well before use.**

1. Fresh tissue should be patted dry.
2. Fixed tissues should be blotted to remove residual fixative solutions.
3. Apply dye color choice directly to the chosen portion of the tissue. Avoid applying the marking dye in excess to prevent bleeding of the dye into other areas of the tissue.

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**TED PELLA, INC.**

*Microscopy Products for Science and Industry*

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4. Dyes will bind permanently to the surface of the specimen in 2-3 minutes at room temperature.
5. After use, snap the lid closed and store at room temperature.

#### **STORAGE/SAFETY**

Storage: Room Temperature (15C - 30C)

Refer to SDS for details: [http://www.tedpella.com/msds\\_html/27213\\_MSDS.pdf](http://www.tedpella.com/msds_html/27213_MSDS.pdf)

Never apply any of the dyes to a living person. Only use them on tissues which have been removed. These are pigments which if placed on living tissue may cause permanent coloration.

#### **ORDERING INFORMATION**

<u>Product</u>	<u>2 oz.</u>
Yellow Dye	#27213-1
Red Dye	#27213-2
Green Dye	#27213-3
Blue Dye	#27213-4
Black Dye	#27213-5
Kit with all 5 colors, 2 oz. ea.	#27213

#### **ANCILLARY PRODUCTS**

ColorBond™ Tissue Marking Dye Mordant - #27208

#### **TECHNICAL NOTES**

The use of ColorBond™ Tissue Marking Dye Mordant will significantly improve the dye adherence and bonding to amphoteric tissue components (especially fatty tissues).

The use of ColorBond™ Tissue Marking De Mordant, which is acetic, will change the amphoteric sites on the tissue to anionic (negative), therefore ensuring that the dye will have the required affinity for the tissue.

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