



Bradley Products, Inc.

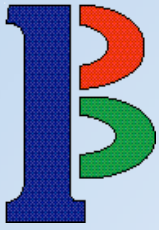
P.O. Box 201405, Bloomington, MN 55420 U.S.

Phone: 952-881-1430 or toll-free from US & Canada: 800-325-7785 Fax: 952-881-1873
e-mail: msbdms@mail.com Internet: www.bradleyproducts.com

The Davidson Marking System® Products

Prices Effective January 1, 2005

| ITEM # | DESCRIPTION |
|---------------|--|
| 2401 | Original Davidson Marking System 5-Color Set Includes 5 – 2 oz. bottles of tissue marking dye (1 ea. of green, yellow, black, red and blue) in a holding tray with 50 applicator sticks and instructions. |
| 2406 | Davidson Marking System 6-Color Set Includes 6 – 2 oz. bottles of tissue marking dye (1 ea. of green, yellow, black, Red, blue and orange) in a holding tray with 50 applicator sticks and instructions. |
| 2403 | Davidson Marking System 3-Color Set Includes 3 – 2 oz. bottles of tissue marking dye (please choose your own colors) in a holding tray with 50 applicator sticks and instructions. |
| 5364 | Davidson Cryocup System Includes 4 Cryocups, 1 Cryocup holder and instructions. |
| 6601 | Davidson Small Specimen Kit Includes 3 – 1 oz. bottles of small specimen dye (1 ea. of green, red and blue) in a holding tray with 1 packet of 250 cassette paper and instructions. |
| 5360 | Cryocup (one cup only) |
| 5361 | Cryocup Holder |
| 1163-1 | 2 oz. bottle of green tissue marking dye |
| 1163-2 | 2 oz. bottle of yellow tissue marking dye |
| 1163-3 | 2 oz. bottle of black tissue marking dye |
| 1163-4 | 2 oz. bottle of red tissue marking dye |
| 1163-5 | 2 oz. bottle of blue tissue marking dye |
| 1163-6 | 2 oz. bottle of orange tissue marking dye |
| 3408-1 | 8 oz. bottle of green tissue marking dye |
| 3408-2 | 8 oz. bottle of yellow tissue marking dye |
| 3408-3 | 8 oz. bottle of black tissue marking dye |
| 3408-4 | 8 oz. bottle of red tissue marking dye |
| 3408-5 | 8 oz. bottle of blue tissue marking dye |
| 3408-6 | 8 oz. bottle of orange tissue marking dye |
| 1873 | 5-Dye Holding tray |
| 1866 | 6-Dye Holding tray |
| 1833 | 3-Dye Holding tray |
| 8553 | 500 Wooden Applicator Sticks (10 packs of 50) |
| 8554 | Brush Caps for 2 oz. bottles (bag of 10) |
| 8555 | 250 Tapered end cotton tipped applicator sticks (10 bags of 25) |
| 8556 | 250 Round end cotton tipped applicator sticks (10 bags of 25) |
| 6605 | Refill packet of 500 cassette papers for The Davidson Small Specimen Kit |



Bradley Products, Inc.

Since 1984, Manufacturers and Distributors of

THE DAVIDSON MARKING SYSTEM[®]



*The original tissue marking system
for a variety of applications
requiring orientation of
tissue specimens*

NEW!

Davidson Cryocup System[®]

NEW!

Davidson Small Specimen Kit[™]



Product Brochure

New Items, New Pricing and
Ordering Information



THE BRADLEY PRODUCTS

FAMILY OF PRODUCTS FOR THE MEDICAL LABORATORY

The Davidson Cryocup System®

Item # 5364
4 Cryocups
and 1 holder

Item # 5361
Cryocup
holder

16.5" tall
for easy
immersing
in liquid
nitrogen

Accepts standard chucks
(chuck not included)

Item # 5360
Cryocup



The Davidson Small Specimen Kit™

Item # 6601
1 oz. green, red &
blue dyes in wood
tray, with 250
cassette papers

not for use as
margin marking
dyes

Item # 6605
500 cassette
papers
2.25" by 3.25"



The Davidson Marking System®

Item #2401 (2 oz. Green, Yellow,
Black, Red, Blue)

complete with 50 applicator sticks
and instructions



Item #2406 (2 oz. Green, Yellow,
Black, Red, Blue, Orange)



Replacement Tissue Dyes for the Davidson Marking System®

2 oz. (59 ml) Dyes

Item # 1163-1 Green
1163-2 Yellow
1163-3 Black
1163-4 Red
1163-5 Blue
1163-6 Orange

Individual two-ounce
(59 ml) bottles of tissue
dye with instructions.

Item # 3408-1 Green
3408-2 Yellow
3408-3 Black
3408-4 Red
3408-5 Blue
3408-6 Orange

Individual eight-ounce
(237 ml) bottles of tissue
dye with instructions.

Applicator Sticks & Brush Caps

Brush caps fit our 2 oz. bottles and are sold in bags of 10.

Item # 8554 10 brushcaps

New! Cotton Tipped Applicator Sticks

6" in length — sold in lots of 250

Item # 8555 250 tapered end cotton tip

Item # 8554 250 rounded end cotton tip

Wood Holding Trays



type of wood
may vary

Item #1866 6-dye tray
Item #1873 5-dye tray

for 2 oz. bottles of
Davidson Marking System® dyes

Item # 8553 500 applicator sticks

Plain wood applicator sticks are 5.75" in length, and are sold in packages of 500 (10 bags of 50 each).

To Order Call

800-325-7785

Or, you may place your
Purchase Order by:

- **Fax:**
952-881-1873
- **Mail:**
Bradley Products, Inc.
P.O. Box 201405
Bloomington, MN 55420
- **Internet:**
www.bradleyproducts.com
- **Phone:**
952-881-1430
or toll-free at 800-325-7785

Payment may be made by:

- **Check** drawn on a U.S. bank
- **Credit Card**
(VISA, MasterCard and Discover cards are accepted.)
- **Electronic Funds Transfer**
(International customers are responsible for bank charges incurred en route.)

Terms:
Net 30 Days

Federal I.D. # 41-0979462

THE DAVIDSON MARKING SYSTEM

New Pricing Effective May 1, 2001

NEW ITEMS!

| <u>Item #</u> | <u>Description</u> |
|---------------|--|
| | The Davidson Cryocup System[®] |
| 5364 | Complete Cryocup System (4 cryocup, 1 holder) |
| 5360 | Cryocup only |
| 5361 | Cryocup holder only |
| | The Davidson Small Specimen Kit[™] |
| 6601 | Set of green, red & blue 1 oz. bottles with applicator caps, in wood holding tray, 1 packet of 250 cassette papers |
| 6605 | Refill packet of 500 cassette papers |

DAVIDSON MARKING SYSTEM[®] PRODUCTS

| | |
|----------|--|
| | The Davidson Marking System[®] |
| 2401 | Original 5-color System |
| 2406 | 6-color System (all 6 colors) |
| | Individual Two-Ounce Dyes |
| 1163-(x) | 2 oz. dye (each color) |
| | Eight-Ounce Refill Dyes |
| 3408-(x) | 8 oz. dye (each color) |
| | Wood Holding Trays (no dyes) |
| 1866 | 6-dye Tray |
| 1873 | 5-dye Tray |
| | Applicator Sticks & Brushes |
| 8553 | Plain wood applicator sticks (500) |
| 8554 | Brush Caps for 2 oz. bottles (10) |
| 8555 | Tapered end cotton tipped app. sticks (250) |
| 8556 | Round end cotton tipped app. sticks (250) |

NOTE: Shipping Charges to be "Prepay and Add" beginning 5/1/2001

Beginning May 1, 2001 we will be changing from a flat shipping charge to a "prepay and add" system, with UPS Ground as our standard service. UPS Next Day, Second Day, 3rd Day, et al will continue to be an available option. **Outside of the United States**, our shipping and handling charge is **\$9.00 per order plus shipping charges**. Our International packages are shipped via UPS Worldwide Express, Expedited or Standard (Canada only).

Dear Colleague,

It has now been over 17 years since Bradley Products, Inc. introduced The Davidson Marking System®. These high quality tissue marking dyes including green, yellow, black, red, blue and orange continue to enjoy wide acceptance in hospitals, clinics and research facilities around the world.

These dyes are visible, reliable and safe. The dyes were originally developed and continue to have importance for orienting tissues. Their major application continues to be marking peripheral tumor or surgical margins. By applying one dye to the superior border, another to the inferior border, etc., one can identify the location of tumor or other pathology within a specimen. This has obvious use for Microscopically Oriented Histologic Sections (MOHS), a technique which is now being used increasingly in tumor surgery.

The dyes are also used to process multiple specimens in a single cassette. Specimens are marked with different colors, processed together, and then are all sectioned and stained on a single slide. This is both efficient and economical. The specimens retain their marking colors and so are easily distinguished.

Now, Bradley Products is introducing our newest products for the medical laboratory—the Davidson Cryocup System® and the Davidson Small Specimen Kit™.

The **Davidson Cryocup System®** will revolutionize frozen section processing, greatly simplifying and speeding up the preparation of specimens. By immersing the loaded cryocup holder in liquid nitrogen, freezing is completed in seconds rather than minutes. The chuck and specimen are easily removed from the cryocup, ready for the microtome. Its simple, intuitive design provides a flat specimen which offers a usable initial cut by traditional microtome methods.

The **Davidson Small Specimen Kit™** solves the increasingly common problem of tracking small specimens during histologic preparation. The unique colors mark the tissue during fixation and embedding, reducing small specimen loss and improving ease and efficiency.

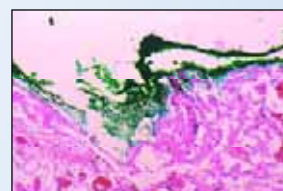
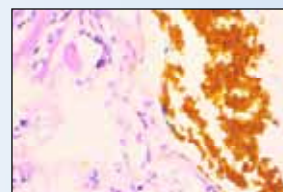
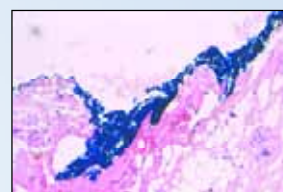
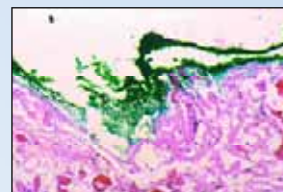
These two new products have been developed jointly by Bradley Products and myself in response to needs identified by ourselves and others in the medical laboratory community. They are available immediately from Bradley Products, Inc.

As always, I appreciate the letters sent to me describing issues, uses and concerns regarding our products, and strongly encourage that communication.

Sincerely,

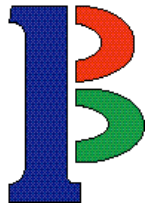
Terence Davidson, M.D.
Professor of Head and Neck Surgery
University of California at San Diego
200 W. Arbor Dr., San Diego, CA 92103-8895
E-mail: msbdms@mail.com

Lab Slides of Davidson Marking System® Dyes in Use



Caution:
These dyes are permanent. Never apply these dyes to a living patient. Only use them on tissue that has been removed.

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e-mail: msbdms@mail.com internet: www.bradleyproducts.com



INSTRUCTIONS FOR THE USE OF THE DAVIDSON MARKING SYSTEM®

BRADLEY PRODUCTS, INC. — P.O. BOX 201405 — BLOOMINGTON, MN 55420
(952)-881-1430, (800)-325-7785, or fax (952)-881-1873



The Davidson marking dyes are used to mark and orient surgical and other tissue specimens submitted for histopathology.

Never apply any of the dye materials to a living patient. Only use them on tissue which has been removed. These are pigments which if placed in the living tissue will cause permanent coloration.

There are a variety of other uses for these dyes. None should be tried without appropriate laboratory investigation first.

The normal application of these dyes is to mark surgical tissue margins. The dyes are most effective when applied to fresh tissue, but work well when applied to tissues already fixed in formalin. Fresh tissue should be patted dry. Fixed tissues should be wiped gently to remove the fluids covering the tissue surfaces. The dyes can be applied in a variety of fashions. Many have found it useful to use wooden orange sticks. The stick is dipped into the dye, the orange stick is scraped along the bottom, excess fluid is removed from the stick by touching it to the top of the bottle and the side of the stick is applied to the appropriate tissue margin. If large surfaces are to be dyed, a cotton-tipped applicator is often useful. This too can be dipped into the dye and then the dye painted on the tissue surface.

ALWAYS SHAKE THE BOTTLE PRIOR TO USE.

The dyes require 2 to 5 minutes to bond to the tissue surface and should be left alone for this period of time. It is not necessary to dry the tissue (such as with a hair dryer). Simply allowing them to sit in the open air is sufficient. The tissue can then be placed in a cassette and put in formalin for permanent fixation or can be placed on a chuck and prepared for frozen section. Only small amounts of dye are necessary for effective marking.

Note on Processing Fatty Tissue

Adherence of marking dyes to fatty tissue, especially for frozen sections, can be a challenge. A recent observation by Brian Datnow, M.D., a pathologist at UCSD, improves this issue. The tissue surface can be defatted with acetone prior to dye application. Squirt or spray a little acetone from a squeeze bottle onto the tissue surface. Pat dry and then apply the dyes and process in the usual fashion, both for frozen and permanent sectioning. This is especially effective for breast and subcutaneous tissues.

AFTER USE, THE CAPS SHOULD BE KEPT ON THE BOTTLES, FOR WHEN THE MATERIALS DEHYDRATE THEY WILL BECOME INEFFECTIVE. DO NOT DILUTE OR ATTEMPT TO RECONSTITUTE THE DYES.

The following represents a typical MOHS marking application. Imagine a 2cm diameter circular piece of skin removed in the excision of a skin cancer (as noted in the illustration below). The tissue is cut into 4 appropriate-sized pieces and prepared for frozen section. The pathologist maintains precise orientation for each piece of tissue. The dyes are applied to the various tissue surfaces and a map is made documenting this application and orientation. Different symbols are used for each color. It is best to develop a consistent set of symbols. Commonly used symbols are shown in the figure below.

An alternate application system is to put an ounce of dye into a small plastic squeeze bottle such as those that contain oil for oil immersion microscopy. The dye can then be placed on the tissue simply by squeezing the bottle and rubbing the tip of the spout along the tissue.

The principal application for the marking dyes is to assist in the orientation of surgical specimens. While the dyes are useful in marking the surface of any surgical specimen, many have found the multiplicity of colors superior to a single color. There appears to be a wide variation in color preference, in part due to personal preferences, and in part due to variability in the adherence of the dyes to fixing chemicals and techniques, as these vary from one laboratory to another.

Another interesting application for the multi-color marking dyes is the ability to process multiple specimens in a single cassette. For example, if several skin tags are removed and one chooses to examine all of them microscopically, each can be dyed a different color, all placed in a single cassette, and processed as a single specimen. The cost savings is obvious. Before using the dyes for this application, each laboratory should validate the consistency of the dyes in their own institution. While it seems prudent to use this concept on multiple benign skin lesions where the probability of malignancy is very small, it would not seem wise to use this application to process specimens with a high probability of malignancy.

Surely there are many interesting and useful applications for these dyes. Each new application must be carefully explored prior to general recommendation. If questions, problems, or ideas arise, I would be interested in your comments.

Terence M. Davidson, M. D.
 UCSD Medical Center
 200 Arbor Street
 San Diego, CA 92103-8895

