

# CRYOCUP SYSTEM

## AND ACCESSORIES

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Davidson® Cryocup® System includes: 1x Cryocup® Holder 3x Cryocup  
1x Nitrogen Reservoir and 1x Cryo Basin

- Maintains cold temperature for quick freezing
- Guaranteed flat surface leads to minimal facing
- Compact and portable size
- Compatible with Microm, Leica, Sakura and earlier-style Thermo-Shandon equipment



# INSTRUCTIONS FOR FROZEN SECTION PROCESSING USING THE DAVIDSON® CRYOCUP® SYSTEM

Use of The Davidson® Cryocup® System allows for more efficient frozen sectioning. The Cryocup® provides a flat specimen, which offers a usable initial cut by traditional microtome techniques. The use of liquid nitrogen provides faster freezing and does not compromise the temperature inside the cryostat machine.

Following directions for use of The Davidson Marking System®, apply Davidson® dyes to mark tissue. Allow to bond and dry (3-5 min).

## STEP 1:

Place tissue specimen into Cryocup® and add OCT. Keep the level of OCT even with, but not above, the inner ledge of the Cryocup® (figure 1).



FIG 1

## STEP 2:

Place chuck into Cryocup® (figure 2).



FIG 2

## STEP 3:

Place Cryocup® into Cryocup® Holder (figure 3). Lower Cryocup® Cover, making sure to center chuck stem in middle opening of cover (figures 4, 5). Use provided clip to clamp cover into place.



FIG 3



FIG 4



FIG 5

## STEP 4:

Immerse Cryocup® Holder into liquid nitrogen reservoir to freeze (figure 6). Keep in liquid nitrogen long enough to ensure tissue and OCT are frozen (typically 20-40 seconds).



FIG 6

## STEP 5:

Lift Cryocup® Holder from liquid nitrogen. Drain. Remove clip. Release chuck from Cryocup by placing in water basin in 6.35mm tepid water for a few seconds or until chuck releases. Or, cup in hand until chuck releases (figure 7).



FIG 7

## STEP 6:

Remove the chuck from the Cryocup® (figure 8). The specimen is ready for the microtome.



FIG 8

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CODE	DESCRIPTION
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## Cryocup Systems (Include Cryo Holder, 3 Cryocups, Nitrogen Reservoir, Cryo Basin and Instructions) (chucks are NOT included)

MARK3607-30B	30mm Cryocup System for Leica cryostat and microtome compatibility.** Includes Cryo Holder 30B and three Cryocups 30MB for compatibility with 30mm Leica chucks. May also use with BPI Cryo Chuck 30, compatible with Leica cryostat and microtome.
MARK3607-30M	30mm Cryocup System for Microm cryostat and microtome compatibility. Includes Cryo Holder 30M and three Cryocups 30MB for compatibility with 30mm Microm chucks.
MARK3607-40B	40mm Cryocup System for Leica cryostat and microtome compatibility.** Includes Cryo Holder 40B and three Cryocups 40B for compatibility with 40mm Leica chucks. May also use with BPI Cryo Chuck 40, compatible with Leica cryostat and microtome.
MARK3607-40M	40mm Cryocup System for Microm cryostat and microtome compatibility. Includes Cryo Holder 40M and three Cryocups 40M for compatibility with 40mm Microm chucks.
MARK3607-50B	50mm Cryocup System for Leica cryostat and microtome compatibility.** Includes Cryo Holder 50B and three Cryocups 50B for compatibility with Leica machines. To use, purchase BPI Cryo Chuck 50, compatible with Leica cryostat and microtome.

## Cryocup Holders (Include Cryo Dipper, Cryo Cover and Cryo Clip)

MARK3609-30B	30mm Cryocup Holder for use with Leica 30mm chucks **
MARK3609-30M	30mm Cryocup Holder for use with Microm 30mm chucks
MARK3609-40/50B	40-50mm Cryocup Holder for use with Leica 40mm, BPI 40mm and BPI 50mm chucks **
MARK3609-40M	40mm Cryocup Holder for use with Microm 40mm chucks

## Cryocups

MARK3608-30MB	30mm Cryocup for BPI, Leica and Microm 30mm chucks **
MARK3608-40B	40mm Cryocup for BPI (Leica compatible) 40mm chucks and Leica 40mm chucks **
MARK3608-40M	40mm Cryocup for Microm 40mm chucks
MARK3608-50B	50mm Cryocup for use with BPI 50mm chucks (Leica compatible) **

## Cryocup Chucks (compatible with Leica cryostat and microtome) \*\*

MARK3609-30	30mm Chuck
MARK3609-40	40mm Chuck
MARK3609-50	40mm Chuck

\*\* BPI Cryocup System and Accessories may also be compatible with Sakura machines and old style Thermo-Shandon machines.

NOTE: For Cryocup® product information, visit our web site.

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