



## DEHYDRANTS

ORDER INFORMATION (CASE/BULK ORDERING AVAILABLE)

<b>DEHYDRANT 100%</b>	<b>DEHYDRANT 95%</b>	<b>DEHYDRANT 80%</b>	<b>DEHYDRANT 70%</b>
VDH-032 (1 L)	VDN-032 (1 L)	VDO-032 (1 L)	VDT-032 (1 L)
VDH-128 (3.8 L)	VDN-128 (3.8 L)	VDO-128 (3.8 L)	VDT-128 (3.8 L)

Order online at [www.volusol.com](http://www.volusol.com)

**INTENDED USE:** Volu-Sol dehydrants are specifically designed for tissue processing and staining of histological and cytological specimens. The products are a clear, colorless blend of ethyl, isopropyl, and methyl alcohol that in some cases have trace amounts of other denatured materials. All dehydrants are non-controlled substances and do not require record keeping. The formulations are readily miscible with water to form any desired grade of alcohol and can be used with all clearing reagents. Volu-Sol's dehydrants can be used with both open and closed tissue processors. Protective gloves should be worn and work should be performed in a ventilated area. These dehydrants can also be used for hydrating and dehydrating tissue sections during staining. Volu-Sol's dehydrants can be used with all special stains that require dehydration, as solvents for preparing special stains, and immunohistochemical procedures that are compatible with alcoholic dehydrants. Volu-Sol's dehydrants can be substituted in place of any alcohol used for hematoxylin and eosin-y staining. These dehydrants are compatible with all manual procedures and automatic stainers.

### TISSUE PROCESSING

**NOTE:** Volu-Sol's dehydrants have shown best results on closed tissue processors when heat is not used during the normal dehydration process. Vacuum has been viewed as an asset during all phases of tissue processing, including dehydration. The time in each dehydration station should be no less than 30 minutes and no more than one (1) hour for a normal, multiple tissue type and thickness processing run. These dehydrants are also recommended to be used in the cleaning cycle of a closed tissue processor in an anhydrous concentration.

**PROCEDURE:** The following tissue processing procedure is recommended for the average hospital surgical load.

<b>STATION 1</b>	Formalin 10% Neutral Buffered	holding
<b>STATION 2</b>	Formalin 10% Neutral Buffered	1 hour
<b>STATION 3</b>	Dehydrant 80%	40 minutes

<b>STATION 4</b>	Dehydrant 95%	40 minutes
<b>STATION 5</b>	Dehydrant 95%	40 minutes
<b>STATION 6</b>	Dehydrant 100%	40 minutes
<b>STATION 7</b>	Dehydrant 100%	40 minutes
<b>STATION 8</b>	Dehydrant 100%	40 minutes
<b>STATION 9</b>	Clearing Reagent	1 hour
<b>STATION 10</b>	Clearing Reagent	1 hour
<b>STATION 11</b>	Paraffin	1 hour
<b>STATION 12</b>	Paraffin	1 hour

**NOTE:** This procedure may not fit every situation. Modifications may be necessary.

**PROCEDURE:** When small biopsy or thin tissue specimens (less than 2 mm in thickness) are processed separately, the following tissue processing schedule is recommended. Tissues are assumed to be fixed. If not, stations one (1) and two (2) should utilize Formalin 10% Neutral Buffered for a minimum of 30 minutes each.

<b>STATION 1</b>	Formalin 10% Neutral Buffered	30 minutes (minimum)
<b>STATION 2</b>	Formalin 10% Neutral Buffered	30 minutes (minimum)
<b>STATION 3</b>	Dehydrant 80%	10 minutes
<b>STATION 4</b>	Dehydrant 95%	10 minutes
<b>STATION 5</b>	Dehydrant 95%	10 minutes
<b>STATION 6</b>	Dehydrant 100%	10 minutes
<b>STATION 7</b>	Dehydrant 100%	10 minutes
<b>STATION 8</b>	Dehydrant 100%	10 minutes
<b>STATION 9</b>	Clearing Reagent	15 minutes
<b>STATION 10</b>	Clearing Reagent	15 minutes
<b>STATION 11</b>	Paraffin	20 minutes
<b>STATION 12</b>	Paraffin	20 minutes

**NOTE:** This procedure may not fit every situation. Modifications may be necessary.

### STAINING

**NOTE:** It is recommended that three stations of Dehydrant 100% for one (1) minute each follow the clearing reagent after deparaffinization, and at least one station of Dehydrant 95% be used prior to the water rinse. After staining is completed, slides should be dehydrated in three (3) stations of Dehydrant 100% for one (1) minute each before clearing. This will assure complete dehydration, which results in maximum slide clarity. Dehydrant 95% can be used prior to the eosin-y to eliminate water carryover into the stain. Another Dehydrant 95% can be used after the eosin-

y stain to assist in lighting the eosinophilic hue if desired. The laboratory should develop a product rotation and change out schedule that adheres to the policies of their department.

**PROCEDURE:** The following tissue staining procedure is recommended for the average hospital surgical load.

STATION 1	Clearing Reagent	3 minutes
STATION 2	Clearing Reagent	3 minutes
STATION 3	Clearing Reagent	3 minutes
STATION 4	Dehydrant 100%	1 minute
STATION 5	Dehydrant 100%	1 minute
STATION 6	Dehydrant 100%	1 minute
STATION 7	Dehydrant 95%	1 minute
STATION 8	Rinse in running tap water	Briefly
STATION 9	Deionized or distilled water	Rinse
STATION 10	Hematoxylin	Chosen time
STATION 11	Rinse in running tap water	Rinse off excess stain
STATION 12	Acid rinse	Chosen time
STATION 13	Rinse in running tap water	30 seconds (agitate)
STATION 14	Bluing Reagent	1 minute
STATION 15	Rinse in running tap water	1 minute
STATION 16	Dehydrant 95%	Rinse
STATION 17	Eosin Y Counterstain	Chosen time
STATION 18	Dehydrant 100%	1 minute
STATION 19	Dehydrant 100%	1 minute
STATION 20	Dehydrant 100%	1 minute
STATION 21	Clearing Reagent	1 minute
STATION 22	Clearing Reagent	1 minute
STATION 23	Clearing Reagent	1 minute

**NOTE:** This procedure may not fit every situation. Modifications may be necessary.

**CAUTION:** See individual Safety Data Sheets (SDS) for warnings and precautions.