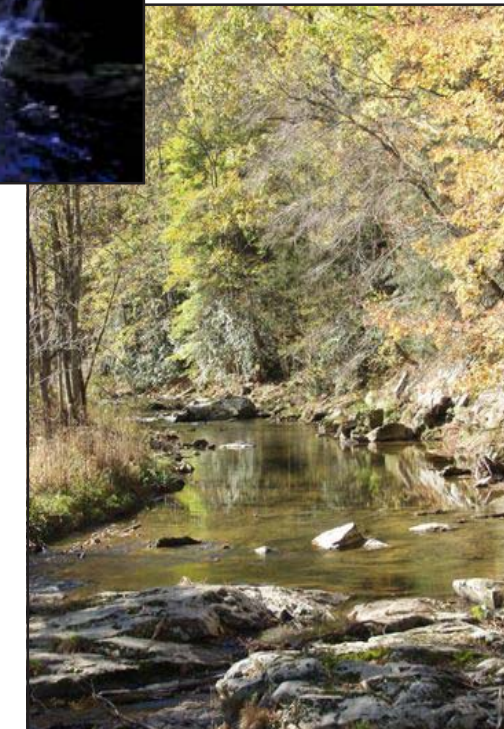
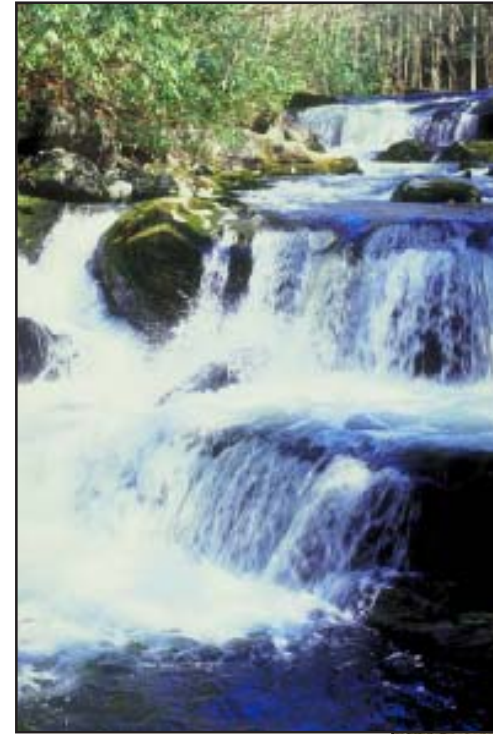


# Specifications & Ordering Information

Cat #	U/M	Description
<b>RAD/Away™</b>		
RA-S	ea	<b>RAD/Away™</b> Benchtop System, low level radioactive waste removal system for volumes <10 liters. Includes tower, stand, hand vacuum and two cartridges (RA-C), Size: (7 x 6.5 x 12)in. (21 x 16.5 x 30.5)cm
RA-C	cs	Cartridge, Replacement for <b>RAD/Away™</b> Benchtop system (RA-S), 6 ea/cs., Size: (8 x 6 x 5)in. (3 x 15 x 13)cm
RA-LVS	ea	<b>RAD/Away™</b> Large Volume System (LVS), aqueous low level radioactive waste removal system for volumes >20 liters. Includes two quick-connect adapters, disposable sealing plug and cap, cartridge stand, parastaltic pump, timer & one LVS cartridge (RA-LVS-C), Size: (15 x 15 x 15)in. (38 x 38 x 38)cm, 115VAC, 60Hz, 2 Amp max.
RA-LVS-C	cs	Cartridge, Replacement for <b>RAD/Away™</b> LVS system (RA-LVS), 6 ea/cs., Size: (13 x 7 x 14)in. (33 x 18 x 35.5)cm
<b>FLUOR/Away™</b>		
FA-S	ea	<b>FLUOR/Away™</b> Benchtop System, fluorescent dye removal system for volumes <50 liters. Includes tower, stand, hand vacuum and 2 cartridges (FA-C), Size: (7 x 6.5 x 12)in. (21 x 16.5 x 30.5)cm
FA-C	cs	Cartridge, Replacement for <b>FLUOR/Away™</b> Benchtop system (FA-S), 6 ea/cs., Size: (8 x 6 x 5)in. (3 x 15 x 13)cm
FA-LVS	ea	<b>FLUOR/Away™</b> Large Volume System (LVS), fluorescent dye removal system for volumes >100 liters. Incl. two quick-connect adapters, disposable sealing plug and cap, cartridge stand, 60rpm parastaltic pump, timer, and one LVS cartridge (FA-LVS-C), Size: (15 x 15 x 15)in. (38 x 38 x 38)cm, 115VAC, 60Hz, 2 Amp max.
FA-LVS-C	ea	Cartridge, Replacement for <b>FLUOR/Away™</b> LVS system (FA-LVS), Size: (13 x 7 x 14)in. (33 x 18 x 35.5)cm
<b>DAB/Out™</b>		
DO-S	ea	<b>DAB/Out™</b> Benchtop System, diaminobenzidine (DAB)removal system for hand staining work, volumes <2 liters. Includes tower, stand, hand vacuum and one cartridge (DO-C), Size: (7 x 6.5 x 12)in. (21 x 16.5 x 30.5)cm
DO-C	cs	Cartridge, Replacement cartridge for <b>DAB/Out™</b> Benchtop system (DO-S), 6 ea/cs., Size: (8 x 6 x 5)in. (3 x 15 x 13)cm
DO-LVS	ea	<b>DAB/Out™</b> Large Volume System (LVS), diaminobenzidine removal from automated IHC waste for volumes >20 liters. Includes stand, parastaltic pump, tubing, timer, siphon tube, and one LVS cartridge (DO-LVS-C), Size: (14 x 11 x 9)in. (35.5 x 28 x 23)cm, 115VAC, 60Hz, 2 Amp max.
DO-LVS-C	ea	Cartridge, Replacement cartridge for <b>DAB/Out™</b> LVS system (DO-LVS), Size: (13 x 7 x 14)in. (5 x 2.5 x 5.5)cm

# Environmental Waste Solutions



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Bulletin # 5.0

**TBS®**

# Technology for Chemical Waste Management and Solvent & Reagent Recycling

Innovative filtration and chemical engineering technology effectively manage hazardous chemical and clinical waste at the point of generation by solidifying and concentrating hazardous materials into small contained cartridges. Processed effluent can then be drain-disposed or reused depending on applications or regulations.



Small volume benchtop model includes tower, stand, & hand vacuum.



Large volume system includes peristaltic pump, timer, cartridge & stand.

## RAD/Away™

Chemically binds radioactive molecules in liquid laboratory waste, concentrating them into a small dry solid that is sealed for disposal, decay or incineration. Also provides an easy mechanism to maintain compliance, lowers waste management costs and limits radioactive material released into the sewer system.

- **Binding** – RAD/Away™ will bind most charged or highly aromatic molecules. Benchtop capacity is 2 liters at >95%. For volumes greater than 20 liters, use the Large Volume System (LVS)
- **Uses** – System can be utilized with a variety of radionucleotides including <sup>3</sup>H, <sup>14</sup>C, <sup>32</sup>P, <sup>35</sup>S, <sup>125</sup>I
- **Application** – RAD/Away™ can filter DNA sequencing gel buffers, tissue culture media, hybridization solutions (≤0.5% SDS), Radioimmunoassays (RIAs) and HPLC waste solutions

## FLUOR/Away™

Extracts Ethidium bromide and other fluorescent dyes from aqueous solutions, eliminating hazardous liquid waste, which reduces the potential for spills and reclaims valuable lab space.

- **Efficiency** – FLUOR/Away™ binds >99.9% of Ethidium bromide from a standard (0.5µg/ml EtBr) solution at a flow rate of 100ml per minute
- **Protection** – By providing a sealed container for disposal, handling and personal exposure is kept to a minimum
- **Volume** – FLUOR/Away™ benchtop cartridges can process 20 liters of standard staining solution (0.5µg/ml EtBr) and have a maximum binding capacity of 10mg/cartridge. For volumes over 100 liters use the Large Volume System (LVS).

## DAB/Out™

Removes and binds diaminobenzidine (DAB) and other carcinogens from aqueous waste generated by automated immunohistochemistry (IHC) staining instruments. The DAB is contained in the replaceable cartridges and the processed effluent can be safely dumped down the drain. The cartridge containing the DAB can be disposed of as hazardous chemical waste and is safe for incineration.

- **Value** – DAB/Out™ provides an environmentally safe method for DAB waste disposal. Easy-to-use system is a cost-effective alternative to other methods of waste management. Simple hands-off operation reduces exposure and minimizes technical training time.
- **Process** – Advanced filtration technology is used to chemically bind DAB to the matrix inside the cartridge. If you purchase the large volume system, DO-LVS, each cartridge, DO-LVC-C, can process approximately 120 liters (30 gallons) of IHC waste from automated IHC stainers. The DO-S benchtop system cartridge, DO-C, is practical for managing waste generated from manual IHC staining procedures. Each new cartridge comes with bactericide ampoules to limit bacteria contamination and growth.
- **Convenience** – Small size saves valuable lab space and allows the system to be portable. No dangerous or ineffective neutralization procedures. Waste is treated at the point of generation so there is no build-up of hazardous chemical waste in the lab. DAB/Out™ comes complete and ready to adapt to any automated IHC machine. DAB/Out™ is also available in a low volume benchtop system for manual staining DAB waste.



### SAFETY/QUALITY STANDARDS

RAD/Away™, FLUOR/Away™, SOLV/Cycle™ and DAB/Out™ have been tested by registered independent bodies to rigorous international quality and safety standards, and have been found to be in compliance with the following regulations/specifications: CE · IEC 1010-1 · UL 3101-1 · CSA C22.2, No. 1010-1