Appl	ied Radiolo	gical Cont	rol, Inc.	
С	HEMISTRY	PROCED	URE	
TITLE <u>Oper</u>	ation of the Nalg	<u>ene Vacuum M</u>	lanifold	
NUMBER	11.0	<u></u>		
REVISION N	UMBER <u>0</u>			
Prepared by:		Approved,	7/	nganingangangang

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## APPLIED RADIOLOGICAL CONTROL, INC.

## CHEMISTRY PROCEDURE 11.0

# 11.0 OPERATION OF THE NALGENE VACUUM MANIFOLD

#### 11.1 Discussion

The Nalgene Vacuum Manifold includes a stainless steel body, three vacuum outlets, each with 2way PTFE stopcock valve and vent port; left/right handles. Filter funnel stems fit into No. 8 stoppers without interference. The prime usage in the mobile chemistry laboratory will be to facilitate vacuum filtrations required for preparing sample mounts for alpha spectroscopy analysis.

### 11.2 Procedure

- 11.2.1 Turn the stopcock(s) to the closed position  $\bigcirc$ .
- 11.2.2 Connect vacuum tubing from the vacuum pump to the tapered, barbed tubing adapter on the manifold.
- NOTE: A vacuum trap is installed between the vacuum pump and the manifold. Careful attention must be paid to the volume of filtrate so as not to overflow the flask and possibly damage the vacuum pump.
- 11.2.3 Place filter funnel(s) with No. 8 stopper(s) in the upright ports.
- 11.2.4 With filter(s) in place, add sample to filter funnel(s).
- 11.2.5 Start vacuum pump and apply vacuum by turning stopcock(s) to flow position.
- 11.2.6 When filtration is complete, turn stopcock(s) to closed position.
- 11.2.7 Before removing the membrane(s), open black vent(s) to release vacuum.
- 11.2.8 Disconnect manifold from vacuum pump.

#### 11.3 Cleaning and Maintenance

- 11.3.1 The manifold should be cleaned periodically with the laboratory detergent.
- CAUTION: Avoid using oxidizing agents, scouring cleansers or strong abrasives, concentrated acids, etc.
- 11.3.2 Always flush the manifold with tap water and then DI water after cleaning and routine use.

ARC CHEMISTRY PROCEDURES May 15, 1993 Procedure 11.0, Revision 0 Page 1 of 1

