## **Dry Shipping Dewar Form**

	ping Order No			Date:
(Complete a new form	for each dewar. Attach	form to	o dewar.)	
<b>Description &amp; \</b>	/alue:			
Ship Via:	☐ FedEx.		Other	
Not ANL property	. Please insure for	Sta	st check one) Indard FedEx liab	ility (\$100)
(Note: shipment may re	hipments only: Cust equire approval by the go IL Shipping in Building 46	overnn		\$ ountry AND the shipment must
Shipment is comp	orised of small sam	ples	of biological macro	omolecules,
Contain	ed in: (Check only th	nose	that apply.)	
	LN2 gas phase			
	refrigerated propa	ane (	<b>kg)</b> (Refer to U	S DOT CA-199807017)
	refrigerated chlor	odifl	uoromethane(	<b>kg)</b> (Ref. US DOT CA-199807017)
	refrigerated ethar	ie ( _	<b>kg</b> (Refer to US	DOT CA-199807017)
Package	ed in: (Must check <u>o</u>	nl <u>y</u> or	ne)	
	dry shipping dew	ar		
	dewar filled with I	iquid	l nitrogen (	_ kg)
☐ Pleas	se inform me (APS l	Jser)	of shipping tracking	ng number.
	E-mail			
	Voice mail			
	$\_cryovials * \frac{1.5ml}{cryovial} *$	densi	$ity\left(\frac{g}{ml}\right) * \frac{1kg}{1000g} = \underline{\qquad}$	kg

CRYOGEN	DENSITY (G/ML)	MASS IN ONE 1.5-ml CRYOVIAL		
Propane (liquid)	0.5853	0.8789 g		
Chlorodifluoromethane (liquid)	1.4909	2.2364 g		
Ethane (liquid)	0.572	0.858 g		
Nitrogen (liquid)	0.8081			

## HAZARDOUS MATERIAL MANIFEST / CARGO LIST

Shipping Order No					Date			
Bldg. From	Bldg. To	Number of Pieces	Container Type	Basic Description Including Proper Shipping Name, Hazard Class & UN #		Signature	Badge Number	Quantity of Hazardous Material (kg)
				Complete new form for each dewar. Attach form to dewar.				
				Chec	ck only those that apply.			
435	5	1	Dewar		Propane, frozen solid Hazard Class 2.1 UN 1978			
					Chlorodifluoromethane, frozen sol Hazard Class 2.2 UN 1018	id		
					Ethane, frozen solid Hazard Class 2.1 UN 1035			
					Nitrogen, refrigerated liquid Hazard Class 2.2 UN 1977			
				100				

INSTRUCTIONS: Attach 2 copies of this form to the hazardous material to be transported. Include MSDS if available (required for off-site shipments)

Contact PFS-SS/MAT to schedule HazMat pickup at extension 2-4939 or pager 4-1683. Call Shipping if you require assistance at extension 2-2934.

PFS-SS/MAT 001 (Rev. 4/99)