

Materials List for:

Laser-Induced Fluorescence Emission (L.I.F.E.) as Novel Non-Invasive Tool for In-Situ Measurements of Biomarkers in Cryospheric Habitats

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Materials

Name	Company	Catalog Number	Comments
acetone	Merck	67-64-1	
B-Phycoerythrin	Invitrogen	P6305	
Chlorophyll a standard	Sigma-Aldrich	C6144-1MG	
formaline	Merck	HT501128	36%
GF/C filters	Whatman	WHA1822025	25mm diameter
HCl	Merck	H1758	36,5-38%
L.I.F.E. Prototype	University of Innsbruck		built on demand
LabView	National Instruments		Software, Laboratory Virtual Instrumentation Engineering Workbench
Leucine, L-[4,5- ³ H], 1 mCi	Perkin Elmer	NET1166001MC	radioactive
Liquid scintillation cocktail Beckman Ready Use	Beckman	not more available, can be compensated by Ultra Gold, Packard	
liquid scintillation counter	Beckman	out of stock	LSC 6000 IC
NaH ¹⁴ CO ₃ (4 µCi/ml)	DHI Denmark	4 µCi/ml, 1 ml	radioactive
Osmonics polycarbonate filters	DHI Denmark	PCTE	25mm diameter, 0,2µm pore size
Polyscintillation vials	Perkin Elmer	WHA1825047	20ml
sample tubes	Sigma Aldrich	T2318-500EA	Greiner centrifuge tubes, 50ml
Spectrophotometer	Hitachi	NA	Model U2001, any photometer for absorption spectroscopy measuring at 664nm and 750nm would be appropriate
trichloric acetic acid (TCA)	Merck	T6399	100%
ultrasonic probe	nano lab	QS1T-2	