

Materials List for:

Bromodeoxyuridine (BrdU) Labeling and Subsequent Fluorescence Activated Cell Sorting for Culture-independent Identification of Dissolved Organic Carbon-degrading Bacterioplankton

Steven Robbins*¹, Jisha Jacob*¹, Xinxin Lu¹, Mary Ann Moran², Xiaozhen Mou¹

¹Biological Sciences, Kent State University

²Marine Sciences, University of Georgia (UGA)

*These authors contributed equally

Correspondence to: Xiaozhen Mou at xmou@kent.edu

URL: <https://www.jove.com/video/2855>

DOI: [doi:10.3791/2855](https://doi.org/10.3791/2855)

Materials

Name	Type	Company	Catalog Number	Comments
BrdU	Reagent	Sigma-Aldrich	B5002-5G	
Lysozyme	Reagent	Sigma-Aldrich	L6876-5G	
Proteinase K	Reagent	Sigma-Aldrich	P2308-25MG	
In Situ Cell Proliferation Kit, FLUOS	Kit	Roche Group	11810740001	Consume more of Anti-BrdU-FLUOS and Incubation buffer per reaction than suggested by the manufacturer.
Frame-Seal Incubation Chambers	Material	Bio-Rad	SLF-1201	
Polycarbonate Membrane Filters (142-mm-diameter, 1.0 µm-pore-size)	Material	EMD Millipore	FALP14250	
Polycarbonate Membrane Filters (25-mm-diameter, 0.2 µm-pore-size)	Material	EMD Millipore	FGLP02500	
illustra PuReTaq Ready-To-Go PCR Beads	Kit	GE Healthcare	27-9559-01	
QIAquick gel extraction kit	Kit	Qiagen	28704	
FailSafe PCR System	Kit	Epicentre Biotechnologies	FS99060	