Materials List for:

Purification of H3 and H4 Histone Proteins and the Quantification of Acetylated Histone Marks in Cells and Brain Tissue

Karolina J. Janczura^{1,2}, Claude-Henry Volmar^{1,2}, Claes Wahlestedt^{1,2}

Correspondence to: Claude-Henry Volmar at cvolmar@med.miami.edu, Claes Wahlestedt at cwahlestedt@med.miami.edu

URL: https://www.jove.com/video/58648

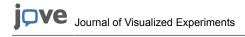
DOI: doi:10.3791/58648

Materials

Name	Company	Catalog Number	Comments
1.5 mL microcentrifuge tubes	ThermoFiser Scientific	05-408-129	or equivalent from other sources
Sterile water	Gibco	15-230-204	or equivalent from other sources
70% perchloric acid	Sigma Aldrich	311421	or equivalent from other sources
100% acetone	Sigma Aldrich	270725	or equivalent from other sources
pH-indicator strips, non-bleeding	Milliipore Sigma	1095310001	
4x SDS sample buffer	BIO-RAD	161-0747	
Benchtop rotor	Cole-Parmer	UX-04397-34	or equivalent from other sources
1.5 mL tube rack	ThermoFiser Scientific	05-541	or equivalent from other sources
Histone purification mini kit	Active Motif	40026	spin columns included in the kit
Protease Inhibitor Cocktail	ThermoFiser Scientific	78430	or equivalent from other sources
Nanodrop instrument	ThermoFiser Scientific	ND-2000	
Tissue culture dishes	VWR	10062-880	required for histone extraction from cultured cells
Tissue culute media	varies based on cell line used	varies based on cell line used	required for histone extraction from cultured cells
Low-serum media	ThermoFiser Scientific	51985091	required for histone extraction from cultured cells
Plastic cell scraper	Falcon	353086	required for histone extraction from cultured cells
SDS-PAGE gradient gel	BIO-RAD	456-9035	required for histone extraction from cultured cells
Coomassie Brilliant Blue R-250 Staining Solution	BIO-RAD	1610436	required for histone extraction from cultured cells
Coomassie Brilliant Blue R-250 Destaining Solution	BIO-RAD	1610438	required for histone extraction from cultured cells
Trans-Blot Turbo Mini PVDF Transfer Packs	BIO-RAD	1704156	required for histone extraction from cultured cells
Trans-Blot Turbo Transfer System	RIO-RAD	1704150	required for histone extraction from cultured cells
Ponceau S stain	CellSignalling	59803S	required for histone extraction from cultured cells
Dounce homogenizer (size/cap sc 7mL) with a small size clearance	Kimble Chase	885302-0007	required for histone extraction from tissues
100% bleach	Clorox	68973	required for histone extraction from tissues
H4K12ac antibody	Active Motif	39166	required for PTMs quantification via WB

¹Department of Psychiatry & Behavioral Sciences, University of Miami Miller School of Medicine

²Center for Therapeutic Innovation, University of Miami Miller School of Medicine



H3K27ac antibody	Active Motif	39134	required for PTMs quantification
			via WB