

Materials List for:

# A Modified EPA Method 1623 that Uses Tangential Flow Hollow-fiber Ultrafiltration and Heat Dissociation Steps to Detect Waterborne *Cryptosporidium* and *Giardia* spp.

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## Materials

Name	Company	Catalog Number	Comments
Asahi Kasei Rexeed 25 S/R wet hollow-fiber ultrafilters	Dial Medical	REXEED25S/R	
I/P 73 (Masterflex R-3603), or equivalent	Cole-Parmer	EW-06408-73	
L/S 24 (Masterflex Platinum-Cured), or equivalent	Cole-Parmer	EW-96410-24	
L/S 15 (Masterflex Platinum-Cured), or equivalent	Cole-Parmer	EW-96410-15	
L/S 36 (Masterflex Platinum-Cured), or equivalent	Cole-Parmer	EW-96410-36	
I/P Precision Brushless Drive	Cole-Parmer	EW-77410-10	
I/P Easy Load Pump Head	Cole-Parmer	EW-77601-10	
Black HDPE Tee, 1/4"x 3/8" x 3/8"	US Plastics	62064	
Masterflex T-connector L/S 15-25	Cole-Parmer	EG-30613-12	
Nalgene heavy-duty pp 1 L bottle	Cole-Parmer	EW-06257-10	
10 ml pipettes	Fisher Scientific	13-678-11C	
Nalgene filling/venting cap for 1/4" tubing, 53B	Cole-Parmer	EW-06258-10	
Pressure gauge	Cole-Parmer	A-680-46-10	
Straight coupling, NPT(F), 1/4"	Cole-Parmer	EW-06469-18	
NPT branch tee, natural pp	Cole-Parmer	A-30610-75	
Pinch clamps, 1/2"	Cole-Parmer	EW-06833-00	
Custom fit DIN adapters	Molded Products Corp	MPC-855NS.250	
Ring stand	Fisher Scientific	14-670B	
Ring stand clamps	Fisher Scientific	05-769-6Q	
Keck ramp clamp, 14mm	Cole-Parmer	EW-06835-10	
Sodium polyphosphate	Sigma-Aldrich	305553	
Sodium thiosulfate pentahydrate	Sigma-Aldrich	72050	
Antifoam Y-30 emulsion	Sigma-Aldrich	A5758	
Tween-80	Sigma-Aldrich	P1754	
10 L Collapsible high-density polyethylene cubitainer	VWR international	IR314-0025	
Centrifuge bottle rack	Fisher Scientific	05-663-103	

250 ml conical centrifuge tubes	Corning	430776	
Disposable funnel	Cole-Parmer	U-6122-10	
Wash bottle	Cole-Parmer	U-06252-40	
Centrifuge	Beckman Coulter Inc.	Allegra X-15R	
Swinging bucket rotor	Beckman Coulter Inc.	ARIES SX4750	
Centrifuge bucket adapters for 250 ml conical tubes	Beckman Coulter Inc.	349849	
200 µl large bore pipette tips	Fisher Scientific	02-707-134	
VacuShield Filter	Gelman	629-4402	
5 ml pipettes	Fisher Scientific	13-678-11D	
Dynabeads: <i>Cryptosporidium</i> / <i>Giardia</i> combo kit	IDEXX	73002	
50 ml conical centrifuge tubes	Falcon BD	352098	
Dynal L10 flat sided tubes	IDEXX	74003	
Timer	VWR international	23609-202	
Dynal MPC-6 magnet	IDEXX	12002D	
1 ml pipettes	VWR international	53283-700	
1.5 ml low adhesion microcentrifuge tubes	Fisher Scientific	02-681-320	
1000 µl pipette & corresponding barrier tips	Gilson, Inc.	P1000/DF1000ST	
100 µl pipette & corresponding barrier tips	Gilson, Inc.	P100/DF100ST	
9 inch Pasteur pipettes	VWR international	14672-412	
Dynal MPC-S magnet	IDEXX	12020D	
Vortex	VWR international	14216-188	
Dynabeads rotator mixer	IDEXX	94701	
Heat block	Fisher Scientific	11-718-2	
Lab Armor Beads	Lab Armor	42370-750	
Digital thermometer	Fisher Scientific	15-077-60	
Phosphate-buffer saline 1X pH 7.4 (1X PBS)	Sigma-Aldrich	P4417	
Single Spot slides	IDEXX	30201	
Cover glass	Corning	287018	
EasyStain direct kit	BTF	-	
10 µl pipette & corresponding barrier tips	Gilson, Inc.	P10 & DF10ST	
4',6'-Diamidino-2-phenyl indole dihydrochloride (DAPI)	Sigma-Aldrich	D9542	
Clear nail polish	Fisher Scientific	S30697	
Methanol	Fisher Scientific	L6815	
Kimwipes	Kimberly Clark	34155	
Incubator	Boekel Scientific	133000	
slide warmer	Fisher Scientific	11-474-521	
Immersion oil, Type A ND= 1.515	Nikon Instruments	MXA20234	
Nikon 90i microscope with DIC capabilities	Nikon Instruments	MBA 77000	
Plan APO 100X oil objective	Nikon Instruments	MRD01901	
Plan Achrom 20X	Nikon Instruments	MRL00202	

FITC filter	Nikon Instruments	96302	
DAPI filter	Nikon Instruments	96301	
X-cite fluorescence illuminator	Nikon Instruments	87540	
Lens paper	Nikon Instruments	76997	
Biohazard disposable bag	Fisher Scientific	01-829D	
Biohazard sharps container	Fisher Scientific	14-827-117	
3 % hydrogen peroxide	VWR international	BDH3540-2	
Bleach	Fisher Scientific	1952030	
Wypall	Kimberly Clark	34790	