

Materials List for

# Development and Testing of Species-specific Quantitative PCR Assays for Environmental DNA Applications

Katy E. Klymus<sup>\*1</sup>, Dannise V. Ruiz Ramos<sup>\*1</sup>, Nathan L. Thompson<sup>\*1</sup>, Catherine A. Richter<sup>\*1</sup>

<sup>1</sup>Columbia Environmental Research Center, U.S. Geological Survey

\*These authors contributed equally

## Corresponding Author

Katy E. Klymus  
kklymus@usgs.gov

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jove.com/video/61825

## Materials

Name	Company	Catalog Number	Comments
96 Place Reversible Racks with Covers	Globe Scientific	456355AST	
Clean gloves (ie. latex, nitrile, etc.)	Kimberly-Clark	43431, 55090	
CFX96 Touch Real-Time PCR Detection System	Bio-Rad	1855196	
Fisherbrand Premium Microcentrifuge Tubes: 1.5mL	Fisher Scientific	5408129	
Fisherbrand Premium Microcentrifuge Tubes: 2.0mL	Fisher Scientific	2681332	
Hard-Shell 96-Well PCR Plates, low profile, thin wall, skirted, white/clear	Bio-Rad	#HSP9601	
IPC forward and reverse primers	Integrated DNA Technologies, Inc.	none	custom product
IPC PrimeTime qPCR Probes	Integrated DNA Technologies, Inc.	none	custom product
IPC Ultramer DNA Oligo synthetic template	Integrated DNA Technologies, Inc.	none	custom product
Labnet MPS 1000 Compact Mini Plate Spinner Centrifuge for PCR Plates	Labnet	C1000	
Microcentrifuge machine	Various	-	Any microcentrifuge machine that hold 1.5mL and 2.0mL tubes is typically okay.
Microseal 'B' PCR Plate Sealing Film, adhesive, optical	Bio-Rad	MSB1001	
Nuclease-Free Water (not DEPC-Treated)	Invitrogen	AM9932	
Pipette Tips GP LTS 1000 µL F 768A/8	Rainin	30389272	
Pipette Tips GP LTS 20 µL F 960A/10	Rainin	30389274	
Pipette Tips GP LTS 200 µL F 960A/10	Rainin	30389276	

Pipettes	Rainin	Various	Depending on lab preference, manual or electronic pipettes can be used at various maximum volumes.
TaqMan Environmental Master Mix 2.0	Thermo Fisher Scientific	4396838	
Target forward and reverse primers	Integrated DNA Technologies, Inc.	none	custom product
Target PrimeTime qPCR Probes	Integrated DNA Technologies, Inc.	none	custom product
Target synthetic gBlock gene fragment	Integrated DNA Technologies, Inc.	none	custom product. used for qPCR standard dilution series
TE Buffer	Invitrogen	AM9849	
VORTEX-GENIE 2 VORTEX MIXER	Fisher Scientific	50728002	