

Materials List for

Handling and Tagging Techniques for Implanting Juvenile American Shad with a New Acoustic Microtransmitter

Katherine A Deters¹, Jill M Janak¹, Robert P Mueller¹, Brandon T Boehnke¹, Zhiquan Daniel Deng¹

¹Earth Systems Science Division, Pacific Northwest National Laboratory

Corresponding Author

Katherine A Deters
Katherine.Deters@pnnl.gov

Citation

Deters, K.A., Janak, J.M., Mueller, R.P., Boehnke, B.T., Deng, Z.D. Handling and Tagging Techniques for Implanting Juvenile American Shad with a New Acoustic Microtransmitter. *J. Vis. Exp.* (208), e65694, doi:10.3791/65694 (2024).

Date Published

June 14, 2024

DOI

10.3791/65694

URL

jove.com/video/65694

Materials

Name	Company	Catalog Number	Comments
#11 stainless steel surgical blade	Exel	29502	purchased from Med-Vet International; no real preference on blade vendor
#11 stainless steel surgical blade	Miltex	MIL4-311	purchased from Med-Vet International; no real preference on blade vendor
2 gallon bucket	Leaktite	#2GL White Pail	
acoustic transmitter for American shad	Pacific Northest National Laboratory	Patent-Pending	BattelleIPID: 32500
air stone	Pentair	AS3	
aquarium air pump	Tetra	Whisper	
dissolved oxygen meter	YSI	ProODO or ProSolo	
ethanol	Decon Laboratories	2805HC	
fine mesh net	Blue Ribbon	ABLEC8	
fish holding tank	Reiff Manufacturing	NA	round aquaculture tank
foam garden kneeler	Tommyco	12003	
plastic storage container	Ziploc	discontinued; 8oz container with lid	
PVC cement	Oatey	30821	
PVC pipe	Charlotte Pipe	NA	PVC Schedule 40 2" diameter
PVC primer	Oatey	30757	
PVC tee	Charlotte Pipe	NA	2" PVC Schedule 40 S x S x S Tee
sea salt	InstantOcean	SS15-10	
silicone tubing 3/16"	Pentair	tp30s	tubing to supply water during tagging
sodium bicarbonate	Fisher Chemical	S233-500	
sterile water	NA	NA	water is sterilized using an autoclave
tricaine methanesulfonate	Syndel USA	15650	
tubing for airline	Hydromaxx	1403038050	