

Materials List for:

Recording Mouse Ultrasonic Vocalizations to Evaluate Social Communication

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Materials

Name	Company	Catalog Number	Comments
needles 0.3mm x 13 mm [30 G 1/2"]	BD Microlance	304000	-
green tattoo paste	Ketchum Manufacturing Inc., Ottawa, Canada	329AA	-
thermometer	Fisherbrand, Waltham, USA	4126 (W255NA)	-
self-made soundproof chamber (pups)	Institut Pasteur, Paris	-	acoustic foam + plexiglas; inside dimensions (W x H x D): 32 cm x 33 cm x 32 cm
small surface thermister + single probe thermocouple	Harvard Apparatus	599814 + 601956	-
smell-less pen	for instance: Giotto	-	ink made with water, washable: these pens are designed for babies
Ethanol absolute (100%)	Sigma Aldrich, Saint-Quentin Fallavier, France	24103	diluted 1/10
Condenser ultrasound microphone Avisoft-Bioacoustics CM16/COMPA	Avisoft Bioacoustics, Berlin, Germany	#40011	furnished with extension cables by the Avisoft company
Ultrasound Gate 416H	Avisoft Bioacoustics, Berlin, Germany	#34163	sound card
Avisoft Recorder USGH	Avisoft Bioacoustics, Berlin, Germany	#10301; #10302	recording software for Windows Vista, 7 and 8
Avisoft SASLab Pro	Avisoft Bioacoustics, Berlin, Germany	#10101, 10111; #10102, 10112;	Windows 10, 8.1, 8, 7 or Vista including Intel-based Apple Macintosh running Boot Camp, Parallels or similar virtualization software.
Laptop or Apple Macintosh running Boot Camp	-	-	running Windows 10, 8.1, 8, 7 or Vista; for the Apple Macintosh, Boot Camp is preferred to virtualizations softwares such as Parallels due to memory constraints
plastic recipient (pup recordings)	Lock & Lock, Chatswood, USA	HPL932D	Lock & Lock Stackable Airtight Container Round 700 ml; use without the cover; dimensions: 9 cm diameter, 10 cm height
PBS 1x (pH = 7.4)	Gibco (Life Technologies)	10010-023	-
slides	Menzel-Gläser, Thermo Scientific	J1800AMNZ	Superfrost Plus
May-Grünwald solution 500 ml	RAL Réactifs, Martillac, France	320070-0500	-
Giemsa R 500 ml	RAL Réactifs, Martillac, France	720-1107	diluted 1/20 in phosphate buffer solution

phosphate buffer solution (self-made)	-	-	pH = 7, 0.1 M: 39 ml NaH ₂ PO ₄ 0.2 M + 61 ml Na ₂ HPO ₄ 0.2 M + 100 ml H ₂ O (final volume: 200 ml)
test cage	Institut Pasteur, Paris	-	50 x 25 cm, 30 cm height; Plexiglas
self-made soundproof chamber (adult recordings)	Institut Pasteur, Paris	-	acoustic foam + PVC; inside dimensions (W x H x D): 66 cm x 90 cm x 46 cm
video camera	From Noldus Information Technologies, Wageningen, The Netherlands	-	high-resolution CamTech Super-Hi-Res video camera; 25 fps
EthoVision XT	Noldus Information Technology, Wageningen, The Netherlands	http://www.noldus.com/animal-behavior-research/products/ethovision-xt	video acquisition software
Mice Profiler Tracker plugin from the ICY platform	Bio Image Analysis, Institut Pasteur, Paris	http://icy.bioimageanalysis.org/plugin/Mice_Profiler_Tracker	tracking software to analyse behavioral events during social interactions