

μTongue: A Microfluidics-Based Functional Imaging Platform for the Tongue *In Vivo*

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jove.com/video/62361

Materials

Name	Company	Catalog Number	Comments
acesulfame K	Sigma Aldrich	04054-25G	Artificial saliva / tastant
calcium chloride solution	Sigma Aldrich	21115-100ML	Artificial saliva / tastant
citric acid	Sigma Aldrich	C0759-100G	Artificial saliva / tastant
cycloheximide	Sigma Aldrich	01810-5G	Artificial saliva / tastant
denatonium	Sigma Aldrich	D5765-5G	Artificial saliva / tastant
Dental glue	Denkist	P0000CJT-A2	Animal preparation
Image J	NIH	ImageJ	Data analysis
IMP	Sigma Aldrich	57510-5G	Artificial saliva / tastant
Instant adhesive	Loctite	Loctite 4161, Henkel	Animal preparation
K ₂ HPO ₄	Sigma Aldrich	P3786-100G	Artificial saliva / tastant
KCl	Sigma Aldrich	P9541-500G	Artificial saliva / tastant
Ketamine	Yuhan	Ketamine 50	Animal preparation
KH ₂ PO ₄	Sigma Aldrich	P0662-25G	Artificial saliva / tastant
KHCO ₃	Sigma Aldrich	237205-500G	Artificial saliva / tastant
MATLAB	Mathwork	MATLAB	Data analysis
MgCl ₂	Sigma Aldrich	M8266-100G	Artificial saliva / tastant
MPG	Sigma Aldrich	49601-100G	Artificial saliva / tastant
Multiphoton microscope	Thorlab	Bergamo II	Microscope
NaCl	Sigma Aldrich	S3014-500G	Artificial saliva / tastant
NaHCO ₃	Sigma Aldrich	792519-500G	Artificial saliva / tastant
Objective	Nikon	N16XLWD-PF	Microscope
Octaflow	ALA Scientific Instruments	OCTAFLOW II	Fluidic control
PC	LG	Lg15N54	Fluidic control
PH meter	Thermoscientific	ORION STAR AZ11	Artificial saliva / tastant
Phosphate-buffered saline	Sigma Aldrich	806562	Artificial saliva / tastant
quinine	Sigma Aldrich	Q1125-5G	Artificial saliva / tastant
Syringe pump	Havard Apparatus	PHD ULTRA 4400	Fluidic control

TRITC-dextran	Sigma Aldrich	52194-1G	Animal preparation
Ultrafast fiber laser	Toptica	FFultra920 01042	Microscope
Xylazine	Bayer Korea	Rompun	Animal preparation