

TUBING 6mm diameter (blue):

Functions:

- INPUT AIR
- VACCUM AIR
- BLUE Y PIECE (between manifold and nasal cannula)

Provider : Radiospare

ref 686-2680 (transparent)

ref 686-2683 (green)

ref 686-2671 (blue)



TUNING TEFLON 4mm diameter (transparent)

Functions :

- AIR LINE from the olfactometer to the odorized U-tubes (10m for fMRI studies)
- ODOR LINE from the U-tubes to the manifold (from 1 to 2 m depends on the experimental set ting)

Provider : Fisher Scientific

ref 11777335



https://fr.fishersci.com/fr/index.php?option=com_insight2&task=getproduct&productCode=11777335

NASAL CANNULA

Functions :

- To record nasal respiration
- To hold odor tubes from the Y-piece to the participant' nostrils

Provider : SEBAC

ref 001320

contact : contact@sebac.com

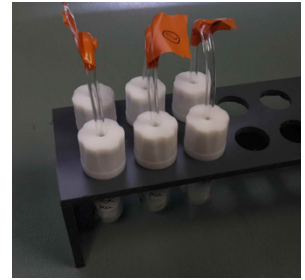
www.sebac.com



U-Tubes, TEFLON plugs and cotton pads

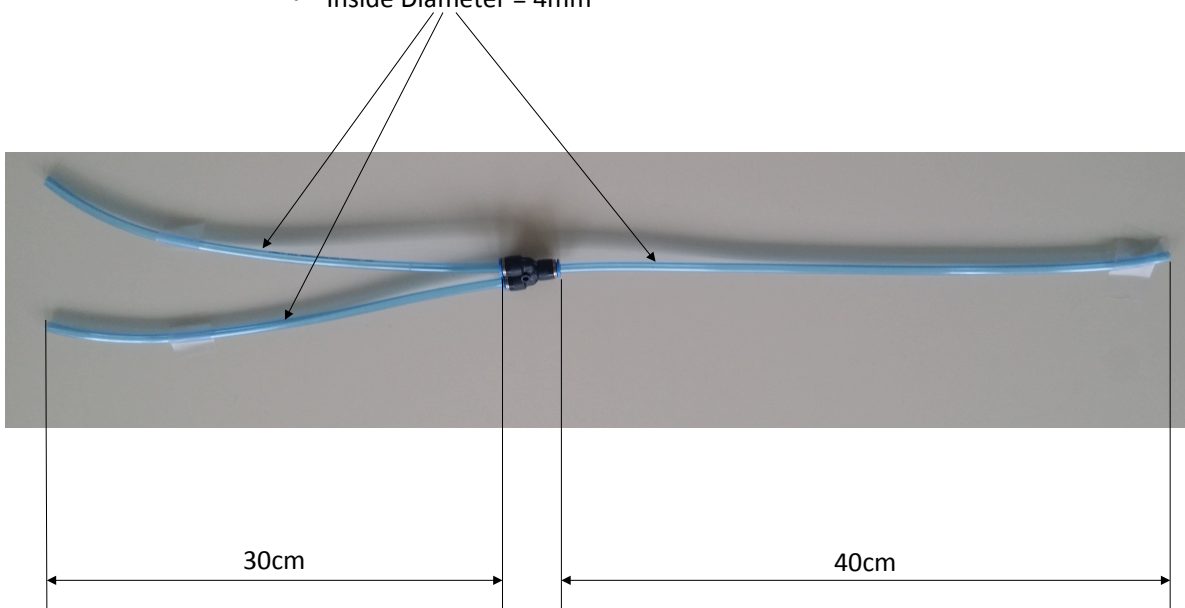
We will provide these during the project

=> Be careful : The 4mm flexible tube should be used only to close the U-Tubes when there is no experiment running ; do not use as an odor line from the olfactometer to the manifold. In turn, because of its flexibility, it should be used to carry odors from the blue Y-piece to subject's nose.



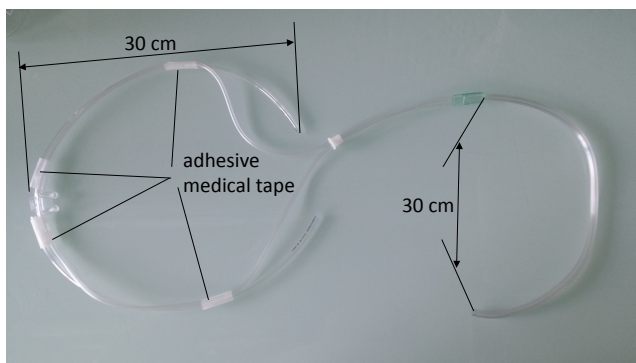
ADVICES TO BUILD THE Y-piece

- Tubes :
- Outside Diameter = 6mm
 - Inside Diameter = 4mm



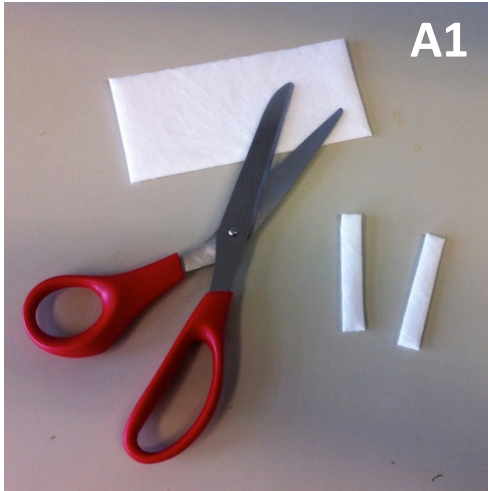
ADVICES TO BUILD THE NASAL DIFFUSION (and sniffing recording) DEVICE

- 1 cannula
- 2 Flexible Polyurethane Tubes
 - Outside Diameter = 4mm
 - Inside Diameter = 2.5mm

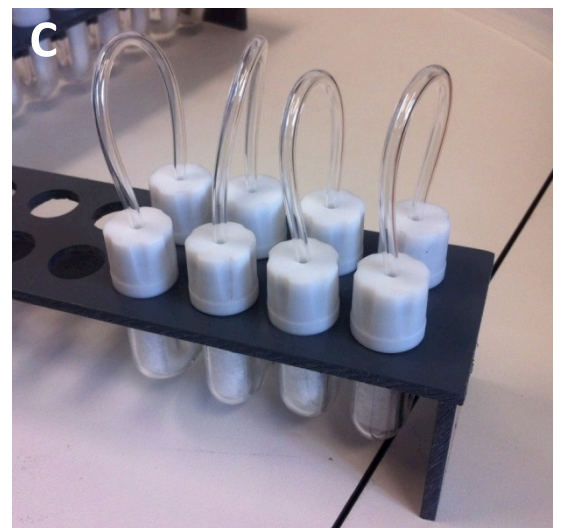
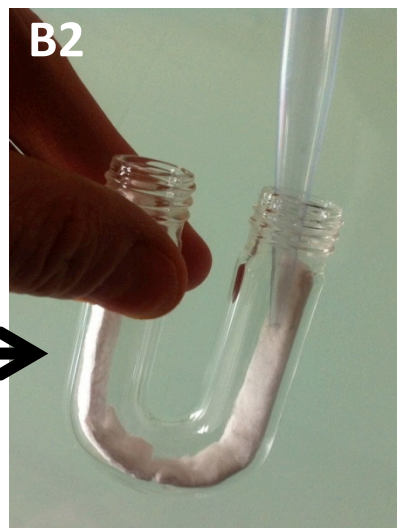


How to prepare U-tubes

First, cut 2 pieces of odorless polypropylene (Oil sorbent 3M® T156): size 1 x 6 cm (Fig. A1). Then insert each piece in one side of the U-tube (Fig. A2-3).



Then, put 1 mL odorous solution on each piece of polypropylene (2 mL in total in the tube). This needs to be done cautiously with a pipette, in such a way that the liquid is deposited only on the polypropylene (not on the tube) and all along it from bottom to top to ensure optimal absorption (see Fig. B1-2).



Finally, plug the tubes (insert a seal between the plug and the top of the tube to ensure airtightness) in the tube rack and close them (see Fig C) with a flexible tube.