Y Choice test invertebrate

Version 2

PLOS One

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ABSTRACT

Y choice test designed for terrestrial invertebrase

EXTERNAL LINK

https://doi.org/10.1371/journal.pone.0209893

THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Beauché F, Richard F-J. The best timing of mate search in Armadillidium vulgare (Isopoda, Oniscidea). Plos One. 2013;8(3):e57737

PDF

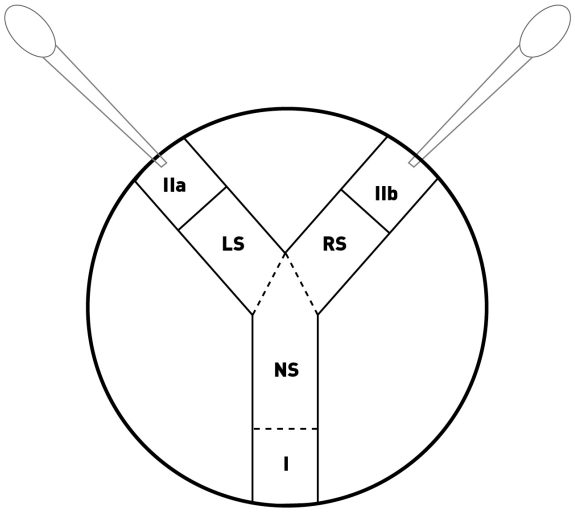
Beauche Richard Plos one 2013.pdf

PROTOCOL STATUS

Working

Device

1 Tests were performed using a Y-shaped choice chamber built in a plastic Petri dish (diameter: 8.7 cm; height: 1.2 cm; lid included) (Fig 2, from Beauché and Richard 2013 in Plos One). Rigid plastic tunnels were also used to create the device, and two plastic pipettes were sealed at the end of these tunnels to pulse air regularly into the system; the air was passed through sections (IIa) and (IIb) to spread the odor of the individuals.



Animals placement and monitoring

2 At the beginning of the experiment, the isopods were placed in the sections located in the three extreme parts of the tunnels:the two target females were placed in sections (IIa) and (IIb) (one in each section), and the tested male was placed in section (I). The male was then able to move into four other sections. The position of the target females in sections (IIa) and (IIb) was inverted between each replicate, and the target and tested individuals were used for only one test. The females were placed in their sections 15 minutes before the beginning of the test so that they could become accustomed to the new environment. The male was placed in section (I), andfrom the moment he entered the neutral section (NS), the time spent in the left section (LS) and the right section (RS) was monitored

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