

Materials List for:

Drosophila Courtship Conditioning As a Measure of Learning and Memory

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Materials

Name	Company	Catalog Number	Comments
<i>P{KK101437}VIE-260B</i>	VDRC	101437	Dhat-at-RNAi in 60100 background
<i>P{KK108109}VIE-260B</i>	-	-	Control-RNAi in 60100 background (gift from K. Keleman)
<i>w+, UAS-dcr2/yhh;;elav-Gal4 (III)</i>	-	-	panneuronal driver line
Containers for plant tissue culture	VWR	960177	175 mL plastic vials
Folded filters	Whatman	10311643	Filter paper to enlarge area flies can pupate on
Flat-bottom blocks (96-wells)	Qiagen	19579	Used for housing blocks
MicroAmp Clear Adhesive Film	Applied Biosystems	4306311	PCR adhesive film as lid on flat-bottom blocks
Razor blade	-	-	Any sharp will do
Needle	-	-	0.8 mm diameter
Aspirator	-	-	Cut a 1mL pipet tip with scissors in order to have two pieces. The narrow tip of the pipettip is placed as fly entrance in a ~80 cm flexible hose. To prevent a fly from getting in the hose, a normal piece of cotton or small mesh gaze is placed in between the tip and the hose. The other half of the pipettip can be used as mouth piece at the end of the hose.
Courtship chambers	-	-	file S1 can be opened with indicated CAD software
Camcorder	Sony	-	camera specification:>4M pixels, full HD. For manual quantification, any simple video recording device has the potential to produce a video of sufficient quality to observe courtship behavior accurately. For automated quantification, there will likely be different requirements depending on the software to be used, and users should investigate

			this thoroughly if automated quantification is desired.
Name	Company	Catalog Number	Comments
power food			
Agar	Sigma	A7002	
Yeast	Bruggeman	-	
Yeast extract	MP biomedical	0210330391	
Peptone	Sigma	P6838	
Sucrose	Sigma	S9378	
Glucose	Sigma	G7021	
MgSO ₄	Sigma	M2643	
CaCl ₂	Merck	1023780500	
Methylparabene (CAUTION)	Sigma	H5501	
Propionic acid (CAUTION)	Sigma	P1386	
Demineralized water	-		
Yeast paste	-		yeast grains and water mixture in a 1:1 ratio
Name	Company	Catalog Number	Comments
normal food			
Agar	MP biomedical	215017890	
Yeast	bruggeman	-	
Corn flour	de Molen	-	
Sugar	de Molen	-	
Methylparabene (CAUTION)	Sigma	H5501	
Propionic acid (CAUTION)	Sigma	P1386	
Demineralized water	-		