

Collection and Identification of Pollen from Honey Bee Colonies

 Ellen Topitzhofer¹, Hannah Lucas¹, Emily Carlson¹, Priyadarshini Chakrabarti¹, Ramesh Sagili¹
¹Department of Horticulture, Oregon State University

Corresponding Author

Ramesh Sagili

Ramesh.Sagili@oregonstate.edu

Citation

 Topitzhofer, E., Lucas, H., Carlson, E., Chakrabarti, P., Sagili, R. Collection and Identification of Pollen from Honey Bee Colonies. *J. Vis. Exp.* (), e62064, doi:10.3791/62064 (2021).

Date Published

January 19, 2021

DOI

10.3791/62064

URL

jove.com/video/62064

Materials

Name	Company	Catalog Number	Comments
#8 hardware cloth			2.7 mm aperture
10 mL graduated cylinder			
1000 uL micropipette tips			
1250 mL filter micropipette tips			
15 x 75 mm glass slides			Thickness: 0.93 mm - 1.05 mm
2 mL microcentrifuge tubes			
250 mL graduated Borosilicate glass beakers (x3)	VWR	10754-952	
50 mL graduated Borosilicate glass beakers (x6)	VWR	10754-946	
95% EtOH	Pharmco AAPER	111000200DM55	ACS/USP/Kosher grade
Butyl vinyl gloves			
Centrifuge			1060 x g maximum speed; horizontal swing preferred
Chemical safety goggles			
Color guide	Pantone	SKU: GP1601A	Solid coated
Coverslip of 1 or 1.5			Thickness: 0.13 mm - 0.19 mm
Distilled water			
Forceps			
Fume hood			
Glacial acetic acid	BDH Chemicals	BDH3092	ACS grade
Glass funnel			
Glycerin	Humco	103196001_1	USP grade, 99.5%, anhydrous
Hazardous waste containers			
Hive tool			
Hot block			Must reach 80 degree C
Lab coat with long sleeves			
Latex or polyurethane foam			

Microscope			
Nailpolish, clear			
Nitrile gloves			
P1000 pipette	VWR		
Petri dish			
Plastic spoon			
Safranin	Ward's Science	470302-322	Lab grade
Smoker			For pollen trap installation
Sodium bicarbonate	EMD Millipore	SX0320	ACS grade, powder
Squirt bottles (x2)			
Sulfuric acid	EMD Millipore	SX1244	ACS grade
Sundance Bottom Mount Pollen Trap	Betterbee Beekeeping Supply	PTRAPB	
Tape			
Wooden stir sticks			
Wooden tooth picks			