

Tick Artificial Membrane Feeding for *Ixodes scapularis*

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jove.com/video/64553

Materials

Name	Company	Catalog Number	Comments
00-10 Hardness Silicone	Smooth-On	Ecoflex 00-10	Trial size from Smooth-On Store
00-50 Hardness Silicone	Smooth-On	Ecoflex 00-50	Trial size from Smooth-On Store
30 Hardness Silicone	Smooth-On	Mold Star 30	Trial size from Smooth-On Store
6-well cell culture plates	Corning Incorporated	3516	
Adenosine triphosphate (ATP)	Millipore Sigma	A1852-1VL	Used to make an aqueous solution of 3 mM ATP that has been filter sterilized via 0.2 micrometer filter
Bovine blood	HemoStat	DBB500	Mechanically defibrinated; 500 mL is usually sufficient for one experiment
Clingwrap	Fisherbrand	22-305654	
Filter Paper	Fisherbrand	09-790-2C	Autoclave and let cool before using. Can use Fine quality instead of medium too
Fluon (aqueous polytetrafluoroethylene)	Bioquip	2871	Available from other sources such as https://canada-ant-colony.com/products/fluon-ptfe-10ml
Glucose	Millipore Sigma	G8270-100G	
Hexane	Millipore Sigma	139386-100ML	
Lens paper	Fisherbrand	11-995	100% rayon
Nystatin	Gold Biotechnology	N-750-10	
Parafilm	Fisherbrand	S37440	
Penicillin/streptomycin/fungizone	Gibco	15240-096	Or equivalent generic with concentration as follows (10,000 units/mL of penicillin, 10,000 µg/mL of streptomycin, and 25 µg/mL of Amphotericin B)
Phagostimulant	Made in House		Collected from prior tick feeds
Polycarbonate Pipe	McMaster-Carr	8585K204	Cut to 45 mm length, 1.25 inch outer diameter, 1 inch inner diameter. Cutting requires a chop saw grinding wheel.
Rubber O-rings	McMaster-Carr	9452K38	5 mm thick, 1.25 inch inner diameter
Soft touch forceps	VWR	470315-238	
Super glue			cyanoacrylate glue

Unryu paper	Art supply stores		mulberry fiber 10 g/m ² . Purchased at Wet Paint art supply store, St. Paul, MN, USA
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