

Materials List for:

# Study on the Metabolism of Six Systemic Insecticides in a Newly Established Cell Suspension Culture Derived from Tea (*Camellia Sinensis* L.) Leaves

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URL: <https://www.jove.com/video/59312>

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## Materials

Name	Company	Catalog Number	Comments
Acetamiprid (99.8%)	Dr. Ehrenstorfer	46717	CAS No: 135410-20-7
Acetonitrile (CAN, 99.9%)	Tedia	AS1122-801	CAS No: 75-05-8
Agar	Solarbio Science & Technology	A8190	CAS No: 9002-18-0
Clothianidin (99.8%)	Dr. Ehrenstorfer	525	CAS No: 210880-92-5
Dimethoate (98.5%)	Dr. Ehrenstorfer	109217	CAS No: 60-51-5
Imidacloprid (99.8%)	Dr. Ehrenstorfer	91029	CAS No: 138261-41-3
Imidaclothiz (99.5%)	Toronto Research Chemical	I275000	CAS No: 105843-36-5
Kinetin (KT, >98.0%)	Solarbio Science & Technology	K8010	CAS No: 525-79-1
Omethoate (98.5%)	Dr. Ehrenstorfer	105491	CAS No: 1113-02-6
Polyvinylpyrrolidone (PVPP)	Solarbio Science & Technology	P8070	CAS No: 25249-54-1
Sucrose	Tocris Bioscience	5511	CAS No: 57-50-1
Thiamethoxam (99.8%)	Dr. Ehrenstorfer	20625	CAS No: 153719-23-4
Triphenyltetrazolium Chloride (TTC, 98.0%)	Solarbio Science & Technology	T8170	CAS No: 298-96-4
2,4-Dichlorophenoxyacetic Acid (2,4-D, >98.0%)	Guangzhou Saiguo Biotech	D8100	CAS No: 94-75-7
chiral column	Agilent CYCLOSIL-B	112-6632	Chromatography column (30 m × 0.25 mm × 0.25 μm)
Gas chromatography (GC)	Shimadu	2010-Plus	Paired with Flame Photometric Detector (FPD)
High-performance liquid chromatography (HPLC)	Agilent	1260	Paired with Ultraviolet detector (UV)
HSS T3 C18 column	Waters	186003539	Chromatography column (100 mm × 2.1 mm × 1.8 μm)
Ultra-high-performance liquid chromatography (UPLC)	Agilent	1290-6545	Tandem quadrupole time-of-flight mass spectrometer (QTOF)
Ultra-high-performance liquid chromatography (UPLC)	Thermo Scientific	Ultimate 3000-Q Exactive Focus	Connected to a Orbitrap mass spectrometer