

Materials List for

Visualizing and Quantifying Pharmaceutical Compounds within Skin using Coherent Raman Scattering Imaging

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jove.com/video/63264

Materials

Name	Company	Catalog Number	Comments
Tissue Preparation			
Autoclavable Biohazard Bags	FisherBrand	22-044562	As referred to in text: biohazard bags https://www.fishersci.com/shop/products/fisherbrand-polyethylene-biohazard-autoclave-bags-without-sterilization-indicator-8/22044562?searchHijack=true&searchTerm=22044562&searchType=RAPID&matchedCatNo=22044562
Cell Culture Buffers: Dulbecco's Phosphate-Buffered Salt Solution 1x	Corning	MT21030CV	As referred to in text: PBS https://www.fishersci.com/shop/products/corning-cellgro-cell-culture-buffers-dulbecco-s-phosphate-buffered-salt-solution-1x-8/MT21030CV?searchHijack=true&searchTerm=21-030-cv&searchType=RAPID&matchedCatNo=21-030-cv
Disposable Scalpels	Exel International	14-840-00	As referred to in text: scalpel https://www.fishersci.com/shop/products/exel-international-disposable-scalpels-3/1484000?keyword=true
High Precision 45° Angle Broad Point Tweezers/Forceps	Fisherbrand	12-000-132	As referred to in text: forceps https://www.fishersci.com/shop/products/high-precision-45-angle-broad-point-tweezers-forceps/12000132#?keyword=
Kimwipes Delicate Task Wipers, 1-Ply	Kimberly-Clark Professional Kimtech Science	06-666	As referred to in text: task wiper https://www.fishersci.com/shop/products/kimberly-clark-kimtech-science-kimwipes-delicate-task-wipers-7/06666
Parafilm M Laboratory Wrapping Film	Bemis	13-374-12	As referred to in text: parafilm https://www.fishersci.com/shop/products/curwood-parafilm-m-laboratory-wrapping-film-4/1337412
Petri Dish (35 mm x 10 mm)	Fisherbrand	FB0875711YZ	As referred to in text: small petri dish

			https://www.fishersci.com/shop/products/fisherbrand-petri-dishes-specialty-6/FB0875711YZ?keyword=true
Petri Dish (60 mm x 15 mm)	Fisherbrand	FB0875713A	As referred to in text: large petri dish https://www.fishersci.com/shop/products/fisherbrand-petri-dishes-clear-lid-12/FB0875713A?keyword=true
Surgical Scissors	Roboz	NC9411473	As referred to in text: scissors https://www.fishersci.com/shop/products/scissors-327/NC9411473?searchHijack=true&searchTerm=RS-5915SC&searchType=RAPID&matchedCatNo=RS-5915SC
Laser/microscope			
650/60 nm BrightLine single-band bandpass filter	Semrock		As referred to in text: CARS filter - CH2 vibrations (645nm/60nm filter)
Control box IX2-UCB	Olympus		As referred to in text: Control Box
D700/30m	Chroma		As referred to in text: CARS filter - deuterated band https://www.chroma.com/products/parts/d700-30m
DeepSee Insight	Spectra-Physics		As referred to in text: Laser https://www.spectra-physics.com/fi/insight-x3-tunable-laser
Digital Handheld Optical Power and Energy Meter Console	ThorLabs	PM100D	As referred to in text: power meter https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=3341
Fluoview Software	Olympus		As referred to in text: Microscope Control software
Frosted Microscope Slides	FisherBrand		As referred to in text: microscope slides https://www.fishersci.com/shop/products/fisherbrand-frosted-microscope-slides-4/22265446
FV1000	Olympus		As referred to in text: Microscope
Incubation Chamber	Tokai Hit	GM-800	As referred to in text: incubation chamber
Integrating Sphere Photodiode Power Sensor	ThorLabs	S142C	As referred to in text: photodiode https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=3341
Power supply FV31-PSU	Olympus		As referred to in text: Power Supply
Precision 4063, 80MHz Dual Channel Function Generator	BK Precision		As referred to in text: function generator
ProScan – Precision Microscope Automation	Prior Scientific Instruments		As referred to in text: stage controller https://www.prior.com/microscope-automation/inverted-microscope-systems/proscan-linear-stage-highest-precision-microscope-automation
SecureSeal Imaging Spacers	Grace Biolabs	654004	As referred to in text: spacer https://gracebio.com/product/secureseal-imaging-spacers-654004/
SRS Detection Kit	APE		As referred to in text: SRS detector
UPLSAPO 20X NA:0.75	Olympus		As referred to in text: 20X Objective https://www.olympus-lifescience.com/en/objectives/uplsapo/
Lipid/Drug Imaging			

35 mm Dish, No. 0 Uncoated Coverslip, 14 mm Glass Diameter	MatTek Corporation	NC9711297	As referred to in text: Glass bottom dish https://www.fishersci.com/shop/products/glass-bottom-mircrowell-dish/nc9711297
Cotton-tipped applicators	FisherBrand		As referred to in text: Cotton-tipped applicator
Distriman Postive Displacement Pipette	Gilson		As referred to in text: Postive Displacement Pipette https://www.fishersci.com/shop/products/gilson-distriman-positive-displacement-repetitive-pipette/F164001G#?keyword=
Distriman Postive Displacement Pipette Tips	Gilson		As referred to in text: Tips for pipette https://www.fishersci.com/shop/products/gilson-distritip-syringes-6/f164100g?keyword=true
Data Analysis			
FIJI	Open-source		As referred to in text: FIJI/ImageJ https://imagej.net/software/fiji/
Jupyter-Lab	open-source		As referred to in text: JupyterLab https://jupyter.org/
Rstudio	Open-source		As referred to in text: Rstudio https://www.rstudio.com/