

Materials List for:

Isolation of Mouse Endometrial Epithelial and Stromal Cells for *In Vitro* Decidualization

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URL: <https://www.jove.com/video/55168>

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Materials

Name	Company	Catalog Number	Comments
ThinCert Tissue culture insert for 24 well plates; 1 µm pore size; transparant	Greiner Bio-one	662610	Inserts are also provided for other multiwell plates and/or other pore sizes. Other suppliers: Merck Millipore. https://shop.gbo.com/en/row/articles/catalogue/article/0110_0110_0090_0030/13408/
Nunc Cell culture treated 24 well plates	Thermo Scientific	142475	http://www.thermofisher.com/order/catalog/product/142475
8-Bromoadenosine 3',5'-cyclic monophosphate sodium salt	Sigma Aldrich	B7880	Prepare a stock solution of 100 mM in Milli Q water. Store aliquots at -20 °C. http://www.sigmaaldrich.com/catalog/product/sigma/b7880?lang=en&region=BE
Medroxyprogesterone 17-acetate	Sigma Aldrich	M1629	Prepare a stock solution of 250 µM in ethanol. Store aliquots at -20 °C. http://www.sigmaaldrich.com/catalog/product/sigma/m1629?lang=en&region=BE
Arachis oil	Supermarket		Standard cooking arachis oil that can be found in every supermarket is used
PrestoBlue cell viability reagent	Thermo Scientific	A13261	https://www.thermofisher.com/order/catalog/product/A13261?ICID=cvc-prestoblue-c1t1
HBSS 1x, no calcium, no magnesium, no phenol red	Gibco	14175-046	Store in fridge as long as possible. Use cold HBSS+ during the protocol. https://www.thermofisher.com/order/catalog/product/14175046
17-β Estradiol	Sigma Aldrich	E8875	Prepare a stock solution of 1 mg/mL in EtOH before diluting in arachis oil (1:1,000). http://www.sigmaaldrich.com/catalog/product/sigma/e8875?lang=en&region=BE
Cell medium filter Stericup, 0.22 µm, polyethersulfone, 500 mL, radio-sterilized	Merck Millipore	SCGPU05RE	http://www.merckmillipore.com/BE/en/product/Stericup-GP%2C-0.22%C2%A0%C2%B5m%2C-polyethersulfone%2C-500%C2%A0mL%2C-radio-sterilized,MM_NF-SCGPU05RE

Penicillin-Streptomycin (5,000 U/mL)	Gibco	15070-063	https://www.thermofisher.com/order/catalog/product/15070063?ICID=search-15070-063
DMEM/F12, phenol red, L-glutamine, HEPES	Gibco	11330-032	https://www.thermofisher.com/order/catalog/product/11330057?ICID=search-11330-057
Fetal Bovine Serum, qualified, heat inactivated, E.U.-approved, South America Origin	Gibco	10500-056	https://www.thermofisher.com/order/catalog/product/10500064?ICID=search-10500-064
Amphotericin B	Gibco	15290-018	https://www.thermofisher.com/order/catalog/product/15290018?ICID=search-15290-018
Gentamicin (50 mg/mL)	Gibco	15750-037	https://www.thermofisher.com/order/catalog/product/15750037?ICID=search-15750-037
DMEM, low glucose, pyruvate, no glutamine, no phenol red	Sigma Aldrich	D5921	http://www.sigmaaldrich.com/catalog/product/sigma/d5921?lang=en&region=BE
MCDB-105	Sigma Aldrich	M6395	Dilute in Milli Q water, adjust pH to 7 with NaOH and filter before use. Store in the dark. http://www.sigmaaldrich.com/catalog/product/sigma/m6395?lang=en&region=BE
Insulin from bovine pancreas	Sigma Aldrich	I1882	http://www.sigmaaldrich.com/catalog/product/sigma/i1882?lang=en&region=BE
Coverslips, glass, 18 mm Ø	Glaswarenfabrik Karl Hecht	1001/18	http://www.hecht-assistent.de/187/?L=1&tx_rmproducts_pi1[g]=937&tx_rmproducts_pi1[p]=3504&tx_rmproducts_pi1[v]=20088&cHash=abd12065683fe74b00eaa5e562824d06
Poly-L-lysine	Sigma Aldrich	P2636	http://www.sigmaaldrich.com/catalog/product/sigma/p2636?lang=en&region=BE
Collagenase type IA from Clostridium histolyticum	Sigma Aldrich	C2674	http://www.sigmaaldrich.com/catalog/product/sigma/c2674?lang=en&region=BE
DPBS, no calcium, no magnesium	Gibco	14190-094	https://www.thermofisher.com/order/catalog/product/14190094?ICID=search-14190-094
Trypsin from bovine pancreas	Sigma Aldrich	T7409	http://www.sigmaaldrich.com/catalog/product/sigma/t7409?lang=en&region=BE
Trypsin-EDTA (0.05%), phenol red	Gibco	25300-054	Warm to room temperature before use. https://www.thermofisher.com/order/catalog/product/25300054?ICID=search-25300-054
Cell strainer, 40 µm mesh, disposable	BD Falcon	352340	https://www.fishersci.com/shop/products/falcon-cell-strainers-4/p-48680
Cell strainer, 100 µm mesh, disposable	BD Falcon	352360	https://www.fishersci.com/shop/products/falcon-cell-strainers-4/p-48680
Millex-GP Syringe Filter Unit, 0.22 µm, polyethersulfone, 33 mm, gamma sterilized	Merck Millipore	SLGP033RS	https://www.merckmillipore.com/BE/en/product/Millex-GP-Syringe-Filter-Unit%2C-0.22%C2%A0%C2%B5m

			%2C-polyethersulfone %2C-33%C2%A0mm%2C- gamma-sterilized,MM_NF- SLGP033RS?bd=1
Acetic acid (glacial) 100%	Merck Millipore	1.00063	https://www.merckmillipore.com/BE/en/product/Acetic-acid-%28glacial%29-100%25,MDA_CHEM-100063
Collagen I	Corning	354236	From rat tail. https://catalog2.corning.com/LifeSciences/en-BR/Shopping/ProductDetails.aspx?categoryname=&productid=354236%28Lifesciences%29#
Pancreatin from porcine pancreas	Sigma Aldrich	P3292	http://www.sigmaaldrich.com/catalog/product/sigma/p3292?lang=en&region=BE
35 mm Tissue Culture Dishes, Polystyrene, Sterile	BD Falcon	353001	https://us.vwr.com/store/catalog/product.jsp?product_id=4675630
Ethanol absolute AnalaR NORMAPUR ACS, Reag. Ph. Eur. analytical reagent	VWR Chemicals	20821296	https://uk.vwr.com/store/catalog/product.jsp?catalog_number=20821.310DP
monoclonal rabbit anti-human vimentin (D21H3)	Cell Signalling Tech	#5741	Use 1/500. http://www.cellsignal.com/products/primary-antibodies/vimentin-d21h3-xp-rabbit-mab/5741
monoclonal mouse anti-human pan cytokeratin	Sigma Aldrich	C2562	Use 1/1,000. http://www.sigmaaldrich.com/catalog/product/sigma/c2562?lang=en&region=BE
Paraformaldehyde Solution, 4% in PBS	Affymetrix	19943	http://www.affymetrix.com/catalog/130621/USB/Paraformaldehyde+Solution+4+percent+in+PBS#1_1
Triton X-100	Sigma Aldrich	X100	http://www.sigmaaldrich.com/catalog/product/SIAL/X100?lang=en&region=BE&gclid=Cj0KEQjwhN-6BRCJsePgxruiwBEiQAI8rq879IESeulU4N4AEQRLNEXj4f8z65KkD-q8Xr35sQDRgaAp-k8P8HAQ
Goat serum	Sigma Aldrich	G9023	http://www.sigmaaldrich.com/catalog/product/sigma/g9023?lang=en&region=BE
Goat anti-rabbit Alexa Fluor 488	Thermo Scientific	A-11034	http://www.thermofisher.com/order/genome-database/searchResults?query=488&resultPage=1&resultsPerPage=15&autocomplete=&searchMode=keyword&productTypeSelect=antibody&targetTypeSelect=antibody_secondary&species=ltechall&keyword=488#filters=genericsort2:\%22Capra%20hircus\%22;;generic6:\%22Oryctolagus%20cuniculus\%22\$;;conjugates:\%22Alexa%20Fluor&reg;%20488\%22\$;;

Goat anti-mouse Alexa Fluor 594	Thermo Scientific	A-11032	http://www.thermofisher.com/order/genome-database/searchResults?query=594&resultPage=1&resultsPerPage=15&autocomplete=&priorSearchTerms=&searchMode=keyword&productTypeSelect=antibody&targetTypeSelect=antibody_secondary&species=ltechall&keyword=594#filters=genericsort2:\%22Capra%20hircus\%22;;generic6:\%22Mus%20musculus\%22\$;
VECTASHIELD mounting medium with DAPI	Vector Laboratories	H-1200	http://vectorlabs.com/vectashield-mounting-medium-with-dapi.html
DPBS, with calcium and magnesium	Gibco	14040174	https://www.thermofisher.com/order/catalog/product/14040133