

Materials List for:

Inactivation of mTor: A Tool to Investigate Meiotic Progression and Translational Control During Bovine Oocyte Maturation

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Materials

Name	Company	Catalog Number	Comments
PBS Dulbecco wCa2+ wMg2+	Biochrom AG	L1815	For gaining of the COC and denudation
D-(+)-Glucose	Sigma	G5400-250G	Supplement to PBS Dulbecco
Sodium pyruvate	Sigma	P3662-25G	Supplement to PBS Dulbecco
Penicillin G sodium salt	Sigma	P3032-25 MU	Supplement to PBS Dulbecco
Streptomycin sulfate salt	Sigma	S1277-50G	Supplement to PBS Dulbecco
Heparin sodium salt	Sigma	H3149-25 KU	Supplement to PBS Dulbecco
Bovine serum albumin	Sigma	A9647-10G	Supplement to PBS Dulbecco
Sodium bicarbonate (NaHCO ₃)	Sigma	S4019-500G	Supplement to PBS Dulbecco
Gentamicin sulfate salt	Sigma	G3632-250MG	Component of TCM medium
TCM-199 Hepes Modification	Sigma	M2520-1L	Component of TCM medium
Sodium chloride (NaCl)	Sigma	S5886-500G	Component of 0.9% NaCl solution
Rapamycin	Cell Signaling Technology (CST)	9904 S	m-Tor-inhibitor
Dimethyl sulfoxide (DMSO)	Serva	39757.01	Used as solubilizer for Rapamycin and Torin 2
Torin 2	R&D Systems	4248/10	m-Tor-inhibitor
Phosphat Buffered Saline Tablets (PBS)	Sigma	P-4417	for PBS-präparation
Tween 20	Serva	39796.01	permeabilization buffer
Roti-Immuno-Block	Roth	T144.1	Blockingsolution+Lsg.für AK
Triton X100	Serva	37240	permeabilization buffer
Hepes	Serva	25245	permeabilization buffer
Albumin Fraktion V(biotinfrei)	Roth	0163.3	permeabilization buffer
D-(+)-Saccharose	Roth	4621.1	permeabilization buffer
Nacl	Roth	3957.1	permeabilization buffer
MgCl ₂ ×6 H ₂ O	Sigma	M2393	permeabilization buffer
Paraformaldehyde	Sigma	P-6148	Fixation
Kaisers Glycergelatine	Merck	109,242	cover oocytes
Alex-Fluor 546F(ab) ₂ fragment goat anti rabbit IgG(H+L)	MOBITEC	A11071	secondary antibody fluorescent labeled
SYBR Green nucleic acid gel stain	Invitrogen	S7563	DNA staining
4E-BP1	CST	9452	primary antibody
p4E-BP1 Thr37/46	CST	2855	primary antibody

anti rabbit IgG-HRP	CST	7074	secondary antibody HRP labelled
ECL prime	GE healthcare	RPN2232	WB detection
Fluid filter Infufl 0,2µm 5,7 cm2	Fresenius Kabi	2909702	Used for sterile filtration
Pipette pipetman P10 0,1-10µl	Gilson		Used for transferring denudated oocytes and embryos and volumina of 0,1-10µl
Pipette Reference 10-100µl	Eppendorf	4920000059	Used for transferring COC and volumina of 10-100µl and for denudation
Pipette Reference 100-1000µl	Eppendorf	4920000083	Used for transferring volumina of 100-1000µl
Micro-classic pipette controller	Brand	25900	Used for transferring COC
Micropipettes intraMark 20µl	Brand	708718	Used for transferring COC
Safe-lock tubes 0,5 ml	Eppendorf	0030 121.570	Used to store volumina up to 0,5 ml
Polypropylene centrifuge tube with conical base 50 ml, 30,0/115mm	Greiner	210261	Used for the aspirated fluid to sediment
Pasteur pipette 7 ml	VWR	612-1681	Used for transferring the sediment to screened Petri dishes
Germ count dish with vents 90/16 mm	Greiner	633175	Used for searching the COC
Petri dish with vents 35/10 mm	Greiner	627102	Used for medium preparation, washing the COC
Petri dish with vents 60/15 mm	Greiner	628102	Used for medium preparation
Multidish 4 wells	Thermo Scientific	176740	Used for washing the COC, for COC maturation, embryo culture and for denudation of the oocytes
Tissue culture dish 35/10 mm, 4 compartments	Greiner	627170	Used for washing the COC
Microscope slides 76x26x1mm	Thermo Scientific	AB00000112E	For fast morphological inspection by Aceto-Orcein-staining
Microscope cover glasses, 18x18 mm	VWR	ECN 631-1567	For fast morphological inspection by Aceto-Orcein-staining
Needle 18G x 1 1/2" 1,2 x 40 mm	BD Microlance	REF 304622	For medium preparation
Incubator inc108med with CO2 control	Memmert	84198998	Used for in vitro maturation
Universal oven model UNB 200	Memmert	84193990	Used for medium preparation
Control unit HAT 400 W1, 72VA 470 x 263 mm	Minitube	12055/0400	Used for keeping the cells warm in the course of treatment
confocal laser scanning microscope, phase contrast microscope	Zeiss	Model: LSM 5 PASCAL Axiovert 200 M	Morphological and immuno-histochemical analysis of oocytes