

Materials List for:

Isolation of Circulating Tumor Cells in an Orthotopic Mouse Model of Colorectal Cancer

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Materials

Name	Company	Catalog Number	Comments
Cell culture Media and Components			
Advanced DMEM F12	Invitrogen	12634010	DMEM/ F12 +++ medium
HEPES (1 M)	Life Technologies GmbH	15630056	DMEM/ F12 +++ medium
Glutamax-I Supplement (200 mM)	Life Technologies GmbH	35050038	DMEM/ F12 +++ medium
Penicillin/Streptomycin (PenStrep)	Life Technologies GmbH	15140122	DMEM/ F12 +++ medium
DMEM	Life Technologies GmbH	61965026	basic medium of 2D cell lines (DMEM/10% FCS)
Fetal Calf Serum (FCS)	BIOCHROM AG	S 0115	basic medium of 2D cell lines (DMEM/10% FCS)
TrypLE Express enzymatic dissociation buffer	Life Technologies GmbH	12604021	
Matrigel basement membrane matrix (BMM, phenol red free)	CORNING B.V. Life Sciences	356231	
Dulbecco's Phosphate Buffered Saline	Life Technologies GmbH	14190169	
Trypsin-EDTA (0.25%, Phenol-Red)	Life Technologies GmbH	25200072	
6-/48-well plates with lid	CORNING	3516/3548	
cell culture flask 75 cm ² , 250 mL	VWR International GmbH	734-2066	
cell culture flask 150 cm ² , 600 mL	Corning B.V. Life Sciences	355001	
Eppendorf tubes 1,5 mL / 2 mL	Sarstedt AG & Co.	72.706.400/ 72.695.400	
15 mL, 50 mL centrifuge tubes	Greiner-Bio-One GmbH	188271/227270	
TC10 Counting Slides (for TC20 Counting Machine)	Bio-Rad Laboratories GmbH	1450016	
Pasteur pipettes (glass, 150 mm)	Fisher Scientific GmbH	11546963/ FB50251	thinly pulled by using a bunsen burner
gentleMACS Dissociator	Miltenyi Biotec	130-093-235	for primary tumor tissue preparation
MACSmix Tube Rotator	Miltenyi Biotec	130-090-753	for primary tumor tissue preparation
gentleMACS C Tubes	Miltenyi Biotec	130-093-237	for primary tumor tissue preparation
Human Tumor Dissociation Kit	Miltenyi Biotec	130-095-929	for primary tumor tissue preparation

Falcon 70 µm Cell Strainer	Corning B.V. Life Sciences	352350	for primary tumor tissue preparation
Name	Company	Catalog Number	Comments
Surgical Equipment			
Sevoflurane	AbbVie Germany GmbH & Co. KG	-	
Medical oxygen	Air Liquide Medical GmbH	-	
Buprenorphine	Temgesic	-	
Bepanthen - ophthalmic ointment	Bayer Vital GmbH	10047757	
Normal saline 0.9% (E154)	Serumwerk Bernburg AG	10013	
Aqua ad injectabilia	Braun	235144	
1 mL Syringe (without dead volume) - Injekt-F SOLO	Braun/neoLab	194291661	
30G injection needle	BECTON DICKINSON	304000	
cellulose swabs	Lohmann & Rauscher Deutschland	13356	
Micro-Adson Forceps	FST - Fine Science Tools	11018-12	
Iris Scissor - ToughCut	FST - Fine Science Tools	14058-11	
Olsen-Hegar Needle Holder	FST - Fine Science Tools	12002-12	
AutoClip Kit	FST - Fine Science Tools	12020-00	
PDS Z1012H 6/0 C1 (surgical suture)	Johnson & Johnson Medical GmbH	Z1012H	
Table Top Research Anesthesia Machine w/O2 Flush and a Sevoflurane Vaporizer	Parkland Scientific	V3000PS/PK	
UltraMicro Pump with Micro4 Controller	World Precision Instruments	UMP3-4	equipment for highly controlled orthotopic injection
Footswitch for SYS-Micro4 Controller	World Precision Instruments	15867	equipment for highly controlled orthotopic injection
Three-axis Manual Micromanipulator	World Precision Instruments	M325	equipment for highly controlled orthotopic injection
Magnetic Stand for Micromanipulator	World Precision Instruments	M10	equipment for highly controlled orthotopic injection
Steel Base Plate for M10 Magnetic Stand	World Precision Instruments	5479	equipment for highly controlled orthotopic injection
Hot Plate 062	Labotect	13854	
Isis - Hair shaver	AESCLAP - Braun	-	
Binocular Surgical Microscope	Parkland Scientific	VS-2Z	
Name	Company	Catalog Number	Comments
CTC isolation			
EDTA	Roth	8040.1	
Density gradient medium – Ficoll	StemCell - Lymphoprep	7801	
Alexa Fluor 488 anti-human CD326 (EpCAM) Antibody clone 9C4	BioLegend	324210	
Alexa Fluor 488 anti-mouse CD326 (EpCAM) Antibody clone G8.8	BioLegend	118210	
Petri Dish, ø 60 x 15 mm, 21 cm ² , Vent	Greiner bio-one	628102	
Fluorescence Cell Culture Microscope	Leica		
Transferman 4r Micromanipulator	Eppendorf		
CellTram Air	Eppendorf		aspiration pump connected to the micromanipulator

Dmz Universal Microelectrode Puller	Dagan Corporation		required for the manufacturing of micro capillaries for single cell aspiration
Prism Glass Capillaries	Dagan Corporation		
PAP pen	Abcam	ab2601	
Dulbecco's Phosphate Buffered Saline	Life Technologies GmbH	14190169	picking buffer
Fetal Calf Serum (FCS)	BIOCHROM AG	S 0115	picking buffer
Penicillin/Streptomycin (PenStrep)	Life Technologies GmbH	15140122	picking buffer
EDTA	Roth	8040.1	picking buffer
Name	Company	Catalog Number	Comments
Immunohistochemistry			
Purified anti-human CD326 (EpCAM) antibody clone 9C4	BioLegend	324201	EpCAM immunohistochemistry (cf, fig 2C)
HRP rabbit anti-mouse IgG	Abcam	ab97046	EpCAM immunohistochemistry (cf, fig 2C)