

Materials List for:

Non-invasive Chromosome Screening (NICS) of Human Preimplantation Embryos: Sample Collection and Chromosomal Ploidy Analysis by MALBAC-NGS

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Materials

Name	Company	Catalog Number	Comments
Hyaluronidase solution, 80 U/mL	SAGE	ART4007-A	Digest oocyte-corona-cumulus complex
Quinn's Advantage m-HTF Medium with HEPES	SAGE	ART-1023	For embryo culture
Quinn's Advantage Fertilization Medium	SAGE	ART-1020	For oocyte and sperm fertilization
Quinn's Advantage Cleavage Medium	SAGE	ART-1026	For embryo cleavage stage culture
Quinn's Advantage Blastocyst Medium	SAGE	ART-1029	For embryo blastocyst stage culture
Quinn's Advantage SPS Serum protein Substitute Kit	SAGE	ART-3010	To denude the oocyte
Quinn's Advantage Tissue culture mineral oil	SAGE	ART-4008P	To cover the culture medium
STRIPPER TIPS	ORIGIO	MXL3-IND-135	For denuding granulosa cells
Pasteur pipettes	ORIGIO	PP-9-1000	For IVF laboratory
ZILOS-tk Laser System	Hamilton Thorne	CLASS 1 laser	For artificial blastocoele collapse
ICSI	ORIGIO	MPH-35-35	For ICSI
HOLDNIG	ORIGIO	MPH-MED-35	For ICSI
9"IVF Pasteur Pipette	Oirgio	MXL3-IND-135	For embryo transfer
microscope	OLYMPUS	1X71	For embryo observation
incubator	Labotect	Inkubator C16	For embryo culture
Vitrification kit	KITAZATO BioPharma	VT101	For embryo vitrification
ES (Vitrification kit)	KITAZATO BioPharma	Reagent inVitrification kit	For embryo vitrification
VS (Vitrification kit)	KITAZATO BioPharma	Reagent inVitrification kit	For embryo vitrification
Cryotop open system	KITAZATO BioPharma	81110	For embryo vitrification
BD Falcon Tissue culture Dishes, Sterile	BD Bioscience	353002	For embryo culture
BD Falcon Organ Culture Dish, Sterile	BD Bioscience	363037	For embryo culture
Nunc IVF 4-Well Dish	Thermo Scientific	144444	For embryo washing and blastocyst culture
Vitrification Cryotop Open system	KITAZATO	81111	For embryo vitrification
NICSInst library preparation kit	Yikon Genomics	KT1000800324	Whole genome amplification and library construction

MT Enzyme Mix	Yikon Genomics	Reagent in NICSInst library preparation kit	For culture medium pre-treatment
Cell Lysis Buffer	Yikon Genomics	Reagent in NICSInst library preparation kit	For culture medium pre-treatment
Cell Lysis Enzyme	Yikon Genomics	Reagent in NICSInst library preparation kit	For culture medium pre-treatment
Pre-Lib Buffer	Yikon Genomics	Reagent in NICSInst library preparation kit	Pre-library preparation
Pre-Lib Enzyme	Yikon Genomics	Reagent in NICSInst library preparation kit	Pre-library preparation
Barcode Primer1-48	Yikon Genomics	Reagent in NICSInst library preparation kit	For library amplificaton
Library buffer	Yikon Genomics	Reagent in NICSInst library preparation kit	For library amplificaton
Library Enzyme Mix	Yikon Genomics	Reagent in NICSInst library preparation kit	For library amplificaton
CMPure Magbeads	Yikon Genomics	Reagent in NICSInst library preparation kit	For library purification
Distill water	Yikon Genomics	Reagent in NICSInst library preparation kit	To dissolve DNA
NICSInst Sample Prep Station	Yikon Genomics	ME1001003	Amplificate DNA
Illumina MiSeq System	Illumina	SY-410-1001	For library sequencing
Vortexer	Qilinbeier	DNYS8	Sample mix
Mini-centrifuge	ESSENSCIEN	ELF6	For separation
Magnetic Stand	DynaMagTM-2	12321D	For library purification
100 % ethanol	Sinopharm Chemical	10009218	For DNA library purification
Qubit 3.0 Fluorometer	Thermo Scientific	Q33216	For library quantification
10 µL, 200 µL, 1000 µL DNase / RNase Free Tips	Axygen	T-300-R-S, T-200-Y-R-S, T-1000-B-R-S	For sample transfer
1.5 mL EP tube, 0.2 mL PCR tube	Axygen	MCT-150-C, PCR-02-C	DNase/RNase free, Low Binding PCR tubes and 1.5 mL micro-centrifuge tubes are recommended.