

Materials List for:

2D and 3D Chromosome Painting in Malaria Mosquitoes

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Materials

Name	Company	Catalog Number	Comments
Acetic acid	Fisher Scientific	A491-212	
Methanol	Fisher Scientific	A412-4	
Propionic acid	Sigma-Aldrich	402907	
Membrane slides 1.0 PET	Zeiss	415190-9051-000	
Buffer tablets "GURR"	Life Technologies	10582-013	
KaryoMAX Giemsa Stain	Life Technologies	10092-013	
ThermoBrite Slide Denaturation/ Hybridization System	Abbott Molecular	30-144110	
VacuFuge vacuum concentrator	Eppendorf	22820001	
Spectroline Microprocessor- Controlled UV Crosslinker XL-1000	Fisher Scientific	11-992-89	
Thermo Scientific NanoDrop	Fisher Scientific	ND-2000	
REPLI-g Single Cell Kit	Qiagen	150343	
GenomePlex Single Cell Kit (WGA4)	Sigma-Aldrich	WGA4-10RXN	
GenomePlex WGA Reamplification Kit (WGA3)	Sigma-Aldrich	WGA3-50RXN	
MZ6 Leica stereomicroscope	Leica	VA-OM-E194-354	A different stereomicroscope can be used
Olympus CX41 Phase Microscope	Olympus	CX41RF-5	A different phase microscope can be used
PALM MicroBeam Laser Microdissection Microscope	Zeiss		
Thermomixer	Eppendorf	22670000	
10x PBS	Invitrogen	P5493	
50x Denhardt's solution	Sigma-Aldrich	D2532	
99% Formamide	Fisher Scientific	BP227500	
Dextran sulfate sodium salt	Sigma	D8906	
20x SSC buffer	Invitrogen	AM9765	
ProLong Gold antifade reagent with DAPI	Invitrogen	P-36931	
dATP, dCTP, dGTP, dTTP	Fermentas	R0141, R0151, R0161, R0171	
Cy3-dUTP, Cy5-dUTP	GE Healthcare	PA53022, PA55022	
BSA	Sigma-Aldrich	A3294	
DNA polymerase I	Fermentas	EP0041	
DNase I	Fermentas	EN0521	
Spermine	Sigma-Aldrich	S3256-1G	
Spermidine	Sigma-Aldrich	S0266-1G	

Potassium Chloride (KCl)	Fisher Scientific	BP366-500	
Sodium Chloride (NaCl)	Fisher Scientific	BP3581	
EGTA	Sigma-Aldrich	E0396-25G	
PIPES	Sigma-Aldrich	P6757-25G	
EDTA	Fisher Scientific	S311-500	
Digitonin	Sigma-Aldrich	D141-100MG	
Triton-X100	Fisher Scientific	BP151-100	
AdhesiveCap 500 clear	Zeiss	415190-9211-000	
QIAamp DNA Micro Kit (50)	Qiagen	56304	
Genomic DNA Clean and Concentrator Kit	Zymo Research	D4010	
37% Paraformaldehyde	Fisher Scientific	F79-500	