



PerkinElmer[®]
For the Better

DOPlify[®]

Whole Genome Amplification Kit

RECOMMENDED EQUIPMENT AND CONSUMABLES LIST

To accompany DOPlify™ TDS Version 1.4

1.1 Clean Laboratory Equipment

✓	Item	PKI(A) use or recommend	Used for
<input type="checkbox"/>	Laminar flow cabinet	Generic	Clean, PCR free location to add lysis reagents, make PCR mastermixes for the WGA and labelling reactions and add the WGA PCR mastermix to cells.
<input type="checkbox"/>	Mini Centrifuge able to accommodate 1.5mL, 0.5mL, 0.2mL tubes	Generic	To spin down reagents to the bottom of the tube eg PCR mastermixes and lysis and WGA mastermix added to biopsies
<input type="checkbox"/>	Pipettes (2, 10, 20, 100 & 200µL)	Eppendorf or other	Liquid handling
<input type="checkbox"/>	Tube racks for 1.5, 0.5 or 0.2mL tubes (2-3)	Generic	Holding place for PKI(A) reagents and mastermix tubes
<input type="checkbox"/>	Cold block	Generic	Holding place for cells and lysed cells
<input type="checkbox"/>	Freezer (-20°C)	Generic	Storing reagents kit
<input type="checkbox"/>	PCR machine with hotlid and programmable ramp rate to 0.25°C/sec or 1°C/4 sec for WGA	Please confirm make and model with PKI(A)	Cell Lysis and WGA PCR

1.2 Clean Laboratory Consumables

✓	Item	PKI(A) use or recommend	Used for
<input type="checkbox"/>	Pipettes tips (low-binding, barrier filter)	Suitable for the available pipettes	Liquid handling
<input type="checkbox"/>	PCR thin walled reaction tube with flat cap (0.5mL or 0.2mL)	Life Technologies Applied Biosystems N801-0737 (0.5mL)	Biopsy collection
<input type="checkbox"/>	Surgical masks-disposable	McNeils or Generic	At all times
<input type="checkbox"/>	Non woven barrier gown-disposable	Medirite GN001-Blue or generic	At all times
<input type="checkbox"/>	Hairnets-disposable	Generic	At all times
<input type="checkbox"/>	Molecular grade tubes (1.5mL)	Sarstedt 72.706.200 or Generic	Mastermix preparation
<input type="checkbox"/>	Black fine tip permanent pen	Generic	Labelling mastermix tubes. Note that all cell tubes should be labelled using a labelling machine for long term storage
<input type="checkbox"/>	Gloves powder-free	Generic	At all times
<input type="checkbox"/>	75% ethanol	Generic	General cleaning – note do not use Ethanol if these processes are being performed in an embryology laboratory.
<input type="checkbox"/>	PCR tube labels (freezer compatible)	Generic	Tube labelling

2.1 General Laboratory Equipment

✓	Item	PKI(A) use or recommend	Protocol step
<input type="checkbox"/>	PCR machine with programmable ramp rate to 0.25°C/sec or 1°C/4 sec for WGA PCR	Please confirm make and model with RHS	Cell lysis and WGA PCR
<input type="checkbox"/>	Freezer (-20°C)	Generic	Storing -20°C reagents and samples
<input type="checkbox"/>	Pipettes 2, 20, 100 & 200µL	Eppendorf or other	Liquid handling. Note that this set of pipettes must not be used in the Clean Laboratory
<input type="checkbox"/>	Tube racks (2-3)	Generic	Holding tubes for PCR
<input type="checkbox"/>	Mini centrifuge to accommodate 1.5mL, 0.5mL, 0.2mL tubes	Generic	Spinning down reagents to the bottom of the tube
<input type="checkbox"/>	Gel electrophoresis equipment	BioRad 164-0301	Visualising WGA products
<input type="checkbox"/>	Gel visualisation and documentation system	BioRad GelDoc EZ	Visualising WGA products
<input type="checkbox"/>	Electronic scales	Generic	Making agarose gel & buffers
<input type="checkbox"/>	Measuring cylinders (100mL, 1L)	Generic	Making agarose gel & buffers
<input type="checkbox"/>	Conical flask (250mL), beaker (2L)		
<input type="checkbox"/>	Bottles 1L (3)	Generic	Making gel tank buffers

2.2 General Laboratory Consumables

✓	Item	PKI(A) use or recommend	Protocol step
<input type="checkbox"/>	Pipettes tips (low-binding, barrier filter)	Suitable for the available pipettes	Liquid handling
<input type="checkbox"/>	DNA marker 100-5000bp	GeneWorks DMW-100M	Visualising WGA and labelling PCR products
<input type="checkbox"/>	Gel Red (ethidium bromide substitute)	Biotium 41003	Visualising WGA products
<input type="checkbox"/>	Molecular grade tubes (0.5 or 1.5mL)	Sarstedt 72.706.200 or Generic	Gel loading preparation
<input type="checkbox"/>	Agarose (for 1% gel)	Promega V3121	Visualising WGA products
<input type="checkbox"/>	Gel tank buffer (0.5x TBE)	Amresco 0478-2PK	Visualising WGA products
<input type="checkbox"/>	Gel load buffer (10mL: 1.5g Ficoll; 0.02g Bromphenol blue)	Sigma	Visualising WGA products
<input type="checkbox"/>	Microplate 96 well for mixing samples with load buffer (optional) or parafilm	Sarstedt 82.1583	Visualising WGA products
<input type="checkbox"/>	Black fine tip permanent pen	Generic	General labelling of tubes
<input type="checkbox"/>	Molecular-grade H ₂ O	MilliQ H ₂ O	Making gel load & gel tank buffers

About PKI(A) Ltd

PerkinElmer Health Sciences (Australia) Pty Ltd (PKI(A)) is a developer of advanced single cell genomic technologies with a focus on improving health and research outcomes.

DOPlify® is a Research Use Only product and is not to be used for diagnostic procedures

