

Sample pre-processing workflows for NGS analysis

Recommended protocols for processing samples prior to nucleic acid extraction and purification for next-generation sequencing (NGS) analysis

Sample
pre-processing

Nucleic acid extraction,
purification, quantitation

Next-generation
sequencing analysis

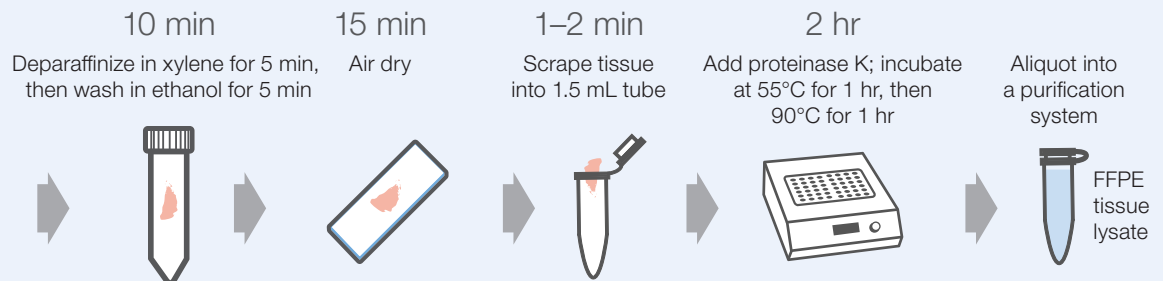
FFPE tissue lysate

Total turnaround time:

~2.5 hrs

Total hands-on time:
~14 min

FFPE tissue



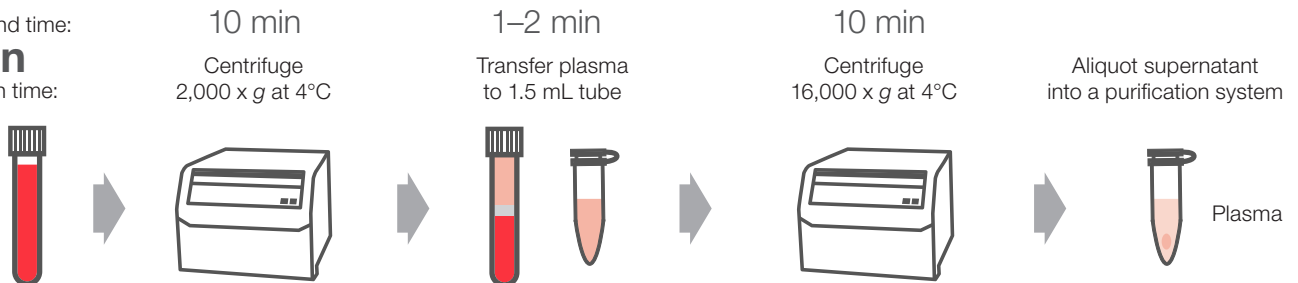
Plasma

Total turnaround time:

~25 min

Total hands-on time:
~6 min

Blood in
K₂EDTA tube



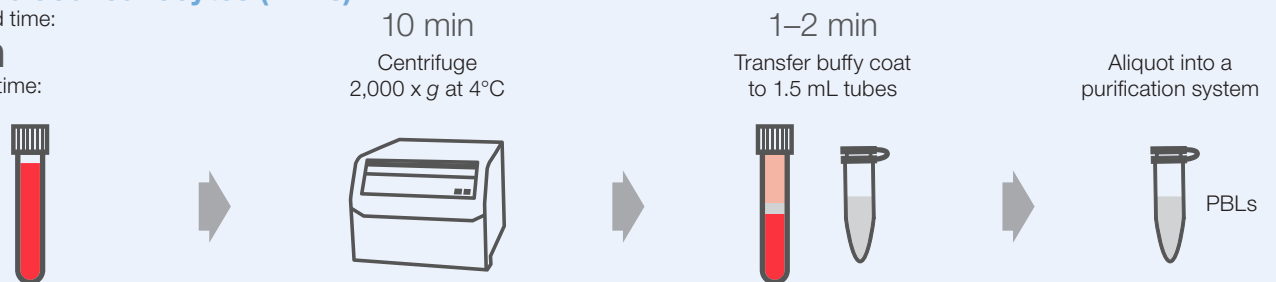
Peripheral blood leukocytes (PBLs)

Total turnaround time:

~15 min

Total hands-on time:
~3 min

Blood in
K₂EDTA tube



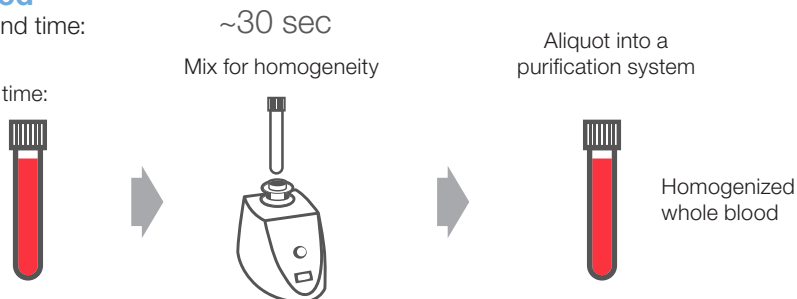
Whole blood

Total turnaround time:

~1 min

Total hands-on time:
~1 min

Blood in
K₂EDTA tube



Ordering information

Sample type	Product	Cat. No.
FFPE tissue lysate	Compact Digital Dry Bath/Block Heater, 2 x 1.5 mL block (US)	88871001
	Compact Digital Dry Bath/Block Heater, 2 x 1.5 mL block (CN, EU, UK)	88871103
	F1-ClipTip Variable Volume Single Channel Pipette (100 to 1,000 µL)	4641230N
	Barrier (Filter) Tips, 1,000 µL size	AM12665
	Nunc 50 mL Conical Sterile Polypropylene Centrifuge Tubes	339653
	RNase-Free Microfuge Tubes (1.5 mL)	AM12400
Whole blood	LP Vortex Mixer	88880017TS
	F1-ClipTip Variable Volume Single Channel Pipette (100 to 1,000 µL)	4641230N
	Barrier (Filter) Tips, 1,000 µL size	AM12665
	Nunc 50 mL Conical Sterile Polypropylene Centrifuge Tubes	339653
	RNase-Free Microfuge Tubes (1.5 mL)	AM12400
Plasma/PBLs	Sorvall ST 8 Small Benchtop Centrifuge	75007200
	TX-100S Swinging Bucket Clinical Rotor	75005704
	Sorvall Legend Micro 17 Centrifuge, Ventilated	75002431
	F1-ClipTip Variable Volume Single Channel Pipette (100 to 1,000 µL)	4641230N
	Barrier (Filter) Tips, 1,000 µL size	AM12665
	Nunc 50 mL Conical Sterile Polypropylene Centrifuge Tubes	339653
	RNase-Free Microfuge Tubes (1.5 mL)	AM12400

Find out more at thermofisher.com/ngs

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