

DNA Extractions

Material Type	Recommended Input ¹	Typical Yield	Recommended Applications
Blood	1 mL	5 µg	All DNA applications ²
Saliva	4 mL Oragene OG-500	2.5 µg	All DNA applications
Cell Pellets	1-2 x 10 ⁶ cells	5 µg	All DNA applications
Frozen Tissue	20-25 mg	5-10 µg	All DNA applications
FFPE Tissue Sections	6-8 sections, 10 µm thick, 250 mm ² SA ³	500 ng	All DNA applications
FFPE Tissue Scrolls	2-3 scrolls, 30 µm thick, 250 mm ² SA ⁴	500 ng	All DNA applications
FFPE Tissue Cores	4-6 cores, 2 mm diameter ⁵	1-2 µg	All DNA applications
Blood Spots	7 punches from FTA card	20-200 ng	All DNA applications
Buffy Coats	200 µL	5 µg	All DNA applications

RNA Extractions

Material Type	Recommended Input	Typical Yield	Recommended Applications
PAXgene Blood	10 mL PAXgene tube	3 µg	Whole Transcriptome Sequencing
Cell Pellets	1-2 x 10 ⁶ cells	10 µg	Whole Transcriptome Sequencing
Frozen Tissue	25-30 mg	500 ng - 10 µg	Whole Transcriptome Sequencing
FFPE Tissue Sections	6-8 sections, 10 µm thick, 250 mm ² SA	500 ng	Transcriptome Capture
FFPE Tissue Scrolls	2-3 scrolls, 30 µm thick, 250 mm ² SA	500 ng	Transcriptome Capture
FFPE Tissue Cores	4-6 cores, 2 mm diameter	500 ng	Transcriptome Capture

DNA + RNA Extractions

Material Type	Recommended Input	Typical Yield	Recommended Applications
Frozen Tissue	20-25 mg	5-25 µg DNA, 5-10 µg RNA	All DNA applications, Whole Transcriptome Sequencing
Cell Pellets	1-2 x 10 ⁶ cells	5-25 µg DNA, 5-10 µg RNA	All DNA Applications Whole Transcriptome Sequencing
FFPE Tissue Sections	6-8 sections 10 µm thick, 250 mm ² SA	500 ng DNA, 500 ng RNA	All DNA applications, Transcriptome Capture
FFPE Tissue Scrolls	2-3 scrolls 30 µm thick, 250 mm ² SA	500 ng DNA, 500 ng RNA	All DNA applications, Transcriptome Capture
FFPE Tissue Cores	4-6 cores, 2 mm diameter	500 ng DNA, 500 ng RNA	All DNA applications, Transcriptome Capture

Notes:

1. For input levels less than the recommended amounts, please contact us
2. Whole Exome Sequencing, Whole Genome Sequencing, GWAS Arrays, Broad Cancer Panel, Custom Panels
3. Increase number of sections if thickness or surface area is below specification; increase thickness if more sections are unavailable
4. Increase number of scrolls if thickness or surface area is below specification; increase thickness if more scrolls are unavailable
5. Increase number of cores if diameter is below specification

For more information please visit
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