

Cat. No. JZ88-T004



- **Product Description**

T-Pro FastEZ Purix Tissue DNA Extraction Kit

Intended Use	T-Pro FastEZ Purix Tissue DNA Extraction Kit is used with the T-Pro Auto 12t System instrument for extraction of genomic DNA from a variety of animal tissues, swab samples, FFPE samples and blood stain.
Application	Nucleic acids extracted from Tissue kit can be used in a number of downstream application including: PCR, qPCR, Sequencing(NGS), SNP Analysis, Microarray, RFLP,Southern Blot Analysis, Methylation studies.

- **Kit Component**

Kit Contents	Q'ty
Reagent Cartridge	36 pcs(6x6)
Reaction Chamber	36 pcs(6x6)
Tip Holder	36 pcs
Filtered Tip	38 pcs
Piercing Pin	38 pcs
Sample Tube (2 mL)	38 pcs
Elute Tube (1.5 mL)	38 pcs
Barcode Paper	1 pc
Proteinase K (10mg/mL, 1 mL)	1 pc
Buffer BL2 (25 mL)	1 pc
Filter Column	38 pcs
Collection Tube	38 pcs

- **Technical Data**

Starting Material: The types and amounts of starting material for use in T-Pro FastEZ Purix Tissue DNA purification procedures are shown in Table listed below.

Sample Type	Target Nucleic Acid	Sample Volume (Amount of starting material)	Elution Volume
Tissue	DNA/ RNA	200 µl/10-40 mg	100 µl or 200 µl
Buccal cells		200 µl/1 swab or brush (approx. 200 µl volume after proteinase K digestion)	100 µl or 200 µl
Dried blood		200 µl/4 discs*	100 µl or 200 µl
FFPE (formalin fixed Paraffin Embedded) Samples		200 µl/One to five 10 µm-thick sections (approx. 200 µl volume after proteinase K digestion)	100 µl or 200 µl

- *A 3 mm diameter disc punched out from filter paper stained with dried blood contains white blood cells from approximately 5 µl whole blood; we recommend using 4 punched-out discs as starting material.If the sample volume is less, add the appropriate volume of PBS

- **Yield of purified DNA**

- DNA yields depend on the sample type, number of nucleated cells in the sample, and the protocol used for purification of DNA.
- Table listed below shows DNA yields obtained from different sample types using T-Pro FastEZ Purix Tissue DNA extraction procedures.

- **The DNA yield of different sample types**

Sample Type	Sample Amount	Typical DNA Yield
Skeletal muscle	200 µl (40 mg tissue digested)	Up to 9µg
Heart	200 µl (20 mg tissue digested)	Up to 12µg
Spleen	200 µl (10 mg tissue digested)	Up to 27µg
Lung	200 µl (10 mg tissue digested)	Up to 17µg
Kidney	200 µl (10 mg tissue digested)	Up to 18µg
Liver	200 µl (10 mg tissue digested)	Up to 40µg
Buccal cells	1 Swab	1-5 µg
Duried blood	4 x 3 mm diameter discs	0.2-0.5 µg

Sample preparation requirements are highly dependent upon the type of starting material. Due to variations in consistency and viscosity, even similar sample types may require distinct handling. The steps below describe some recommendations for processing primary samples