

Genomic DNA from Saliva — Manual Method

OVERVIEW

Nearly every life science research, clinical and molecular diagnostic laboratory requires a rapid and robust means of extracting genomic DNA from saliva. With TruTip, Akonni Biosystems offers an innovative extraction solution for efficient isolation of genomic DNA from the most challenging clinical samples and delivers inhibitor-free, PCR-ready DNA in just minutes.

- Faster than all other methods
- Remove inhibitors and contaminants
- Eliminate spin column and centrifugation steps
- Achieve consistent yields equal to industry 'gold standards'
- Scalable to fit your throughput needs

THE POWER OF TRUE ON-DEMAND SAMPLE PREPARATION



Akonni TruTip uses a patented and innovative nucleic acid binding matrix inserted in a pipette tip. TruTip can be used to purify a single sample and get results fast! In the field, capitalize on TruTip's scalable portability and run one to eight samples at a time using a Rainin EDP® 3-Plus single or multichannel pipette. In the lab, use TruTip to extract nucleic acids as they come in, taking advantage of the power of true on-demand sample preparation.

TruTip DNA EXTRACTION RESULTS

Extensive testing on the extraction and purification of genomic DNA (gDNA) from saliva has demonstrated highly reproducible yields at concentrations equivalent to those produced by industry-leading systems. Starting with the Oragene® DNA Collection Kits, saliva can be collected and stored at room temperature, providing a simple and inexpensive sample to process with Akonni's TruTips.

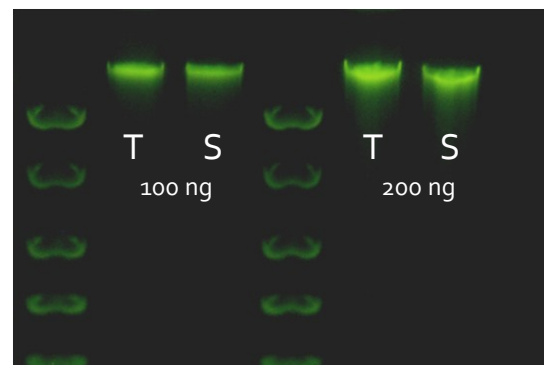
Input/Elution (µL)	Extraction Method	Avg. Ct	Avg. Conc. (ng/µL)	Avg. Yield (µg)
100 / 100	2 mL SPT TruTip™	25.42 ± 0.06	21.97 ± 0.99	2.2
	Spin Column	26.03 ± 0.12	13.65 ± 1.12	1.37
50 / 50	1 mL SPT TruTip™	25.48 ± 0.11	21.18 ± 1.69	1.06
	Spin Column	26.65 ± 0.27	8.75 ± 1.89	0.44

Table (above): Comparison of Average Ct, concentration and yield between Akonni TruTips and 'gold standard' spin columns. Results obtained using AB Quantifiler real-time PCR kit.

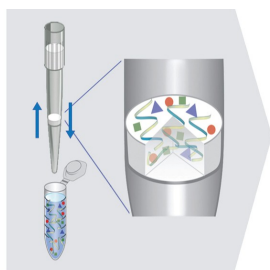
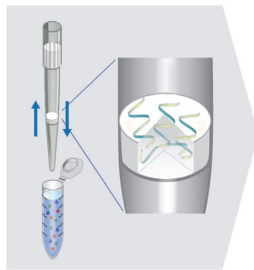
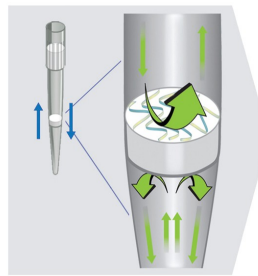
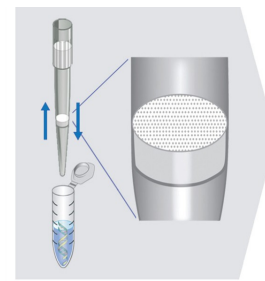
Extraction Time



Time Comparison for extraction between two methods.



Agarose gel of 100 ng and 200 ng extracted product from TruTip (TT) and industry-leading spin column (SC) extraction methods. 4 kb ladder shown. Typical gDNA fragments are 30–50kb in length.

STEP 1: Bind Acid to Matrix**STEP 2:** Wash Away Impurities**STEP 3:** Air Dry**STEP 4:** Elute

So simple, you'll be done in 4 easy steps!

ORDERING INFORMATION

To learn more about how TruTip sample preparation will revolutionize the way you extract nucleic acids, visit us at www.akonni.com.

TruTip gDNA Saliva Kit:

To extract and purify human genomic DNA from saliva samples.



gDNA Extraction Using Rainin LTS				Starting Volume		Catalog No		
Target	Sample Source	Pipette Size	# of Tips & Type	More Viscous & Higher Volume	Less Viscous & Lower Volume	Standard Kit	Starter Kit*	
gDNA	Saliva	2 mL	60 SPT		100-200µL	300-20400	300-20404	
			60 LPT	201-400µL		300-20401	300-20405	
			30 SPT/30 LPT	100-400µL	100-400µL	300-20407	300-20406	
		1.2 mL	96 SPT		≤ 100µL		300-20430	300-20434
			96 LPT	≤ 100µL			300-20431	300-20435
			48 SPT/48 LPT	≤ 100µL	≤ 100µL		300-20437	300-20436

*Starter Kits for first time buyers contain Rainin's EDP® 3-Plus Pipette.

To order call +1 301.698.0101

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