

PCR-Ready Genomic DNA from Blood - Manual Method

OVERVIEW

Nearly every life science research, clinical and molecular diagnostic laboratory requires a rapid and robust means of extracting genomic DNA from blood. 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

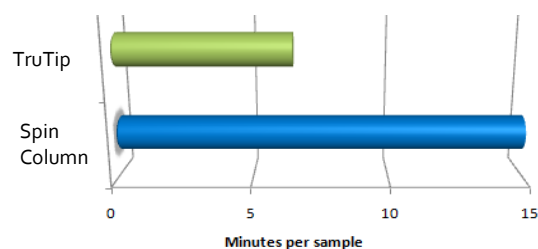
THE POWER OF TRUE ON-DEMAND SAMPLE PREPARATION



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.

Extraction Time



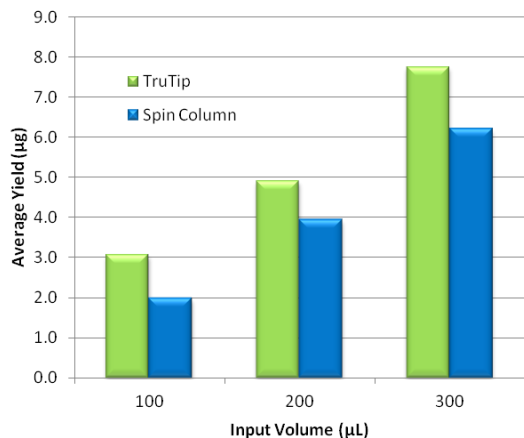
Time Comparison for extraction between two methods after 10 minute pre-treatment step.

EXCELLING IN YIELD AND QUALITY

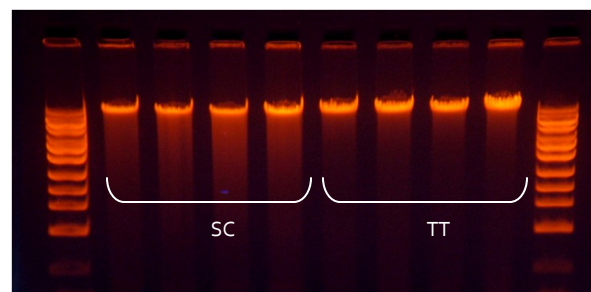
Extensive testing on the extraction and purification of genomic DNA (gDNA) from blood has demonstrated highly reproducible yields equivalent to those produced by industry-leading systems. Product gels, **260/280 ratios > 1.7** and **260/230 ratios > 1.7** indicate higher quality extracted genomic DNA compared to the spin column methods. With TruTip, extractions can be performed on whole fresh or frozen blood, providing a simple and inexpensive sample-to-results experience.

Yield Comparison

TruTip (TT) vs. Spin Column (SC)

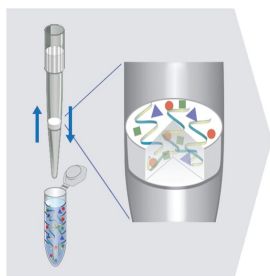


Comparison of average concentration and yield between Akonni TruTip (TT) and industry-leading spin columns with an elution volume of 100µL. (n= 8-24 samples)

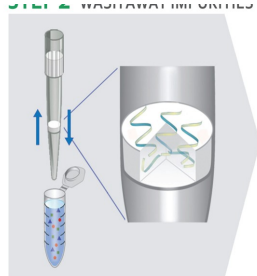


Agarose gel of 200 ng extracted product from TruTip (TT) and industry-leading spin column (SC) extraction methods. 24 kb ladder shown. Typical gDNA fragments are 30–50kb in length.

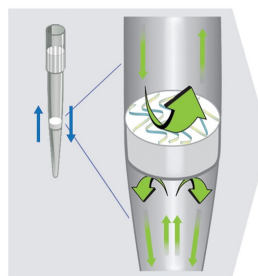
STEP 1: Bind Acid to Matrix



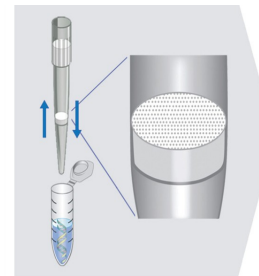
STEP 2: Wash Away Impurities



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 Blood Kit:

To extract and purify human genomic DNA from blood samples.



gDNA Extraction Using Rainin LTS					Catalog No.	
Target	Sample Source	Pipette Size	# of Tips & Type	Starting Volume	Standard Kit	Starter Kit*
gDNA	Whole Blood - fresh or frozen	2 mL	60 LPT	>200 µL	300-20301	300-20305
		1.2 mL	96 LPT	100—300 µL	300-20331	300-20335

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

To order call +1 301.698.0101
info@akonni.com

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