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## PCR-Ready Genomic DNA from Saliva in Minutes

### OVERVIEW

Nearly every life science researcher, hospital and molecular diagnostic laboratory will benefit from TruTip's ability to provide a decrease in the length of time it takes to extract genomic DNA from saliva. The Akonni Biosystems TruTip Extraction Kits offer a competitive solution for fast and efficient isolation of genomic DNA from the most challenging clinical sample types to deliver inhibitor-free, PCR-ready DNA in just minutes.

- Clear your backlog in TruTip Speed
- Remove inhibitors and contaminants with TruTip Purity
- Eliminate spin column and centrifugation steps
- Achieve yields equal to industry leaders
- Highly adaptable to fit your throughput needs

### Eppendorf epMotion® 5070



### AUTOMATED SOLUTIONS

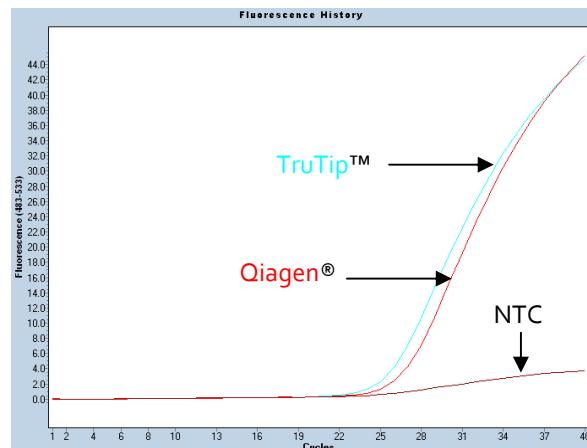
Akonni TruTips are now available for Eppendorf's epMotion automated pipetting system. Automating the process allows for higher sample throughput and eliminates user error. Twenty-four samples can be processed on a single plate in 30 minutes, well under 2 minutes per sample. The program includes set-up time for aliquoting all reagents, which allows the user to process samples easily with the press of a button.

### TruTip DNA EXTRACTION RESULTS

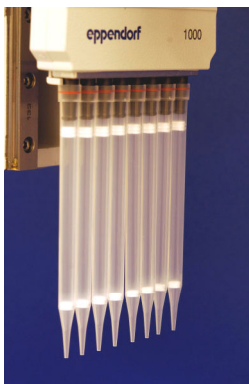
Extensive testing on the extraction and purification of genomic DNA (gDNA) from saliva has demonstrated highly reproducible yields at concentrations equivalent to those produced by industry-leading systems.

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.

### Comparison To Industry Standards



Extraction Method	Average Ct	Average Yield (ng)
TruTip™ gDNA Saliva Kit	25.88 ± 0.37	630
Qiagen® Blood or Body Fluid	26.84 ± 0.22	290



(Above) Replicate extractions of 50 µL saliva using the TruTip Saliva Kit (single epMotion plate, n=24) and the Qiagen Blood or Body Fluid Kit (n=8).

Extracted gDNA was detected by real-time PCR on the Roche LightCycler® 480, using the Applied Biosystem™ (AB) Quantifiler® Human DNA Quantification Kit. Concentration was calculated based on AB Human DNA Quantifier Standard Curve analysis.

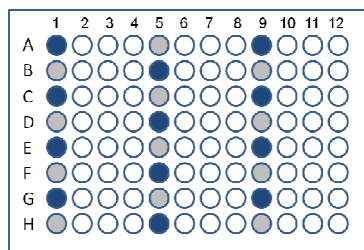
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### Reproducibility Study

Column 1		Column 4		Column 8	
Sam-ple	Ct	Sam-ple	Ct	Sam-ple	Ct
EP1	25.57	EP9	26.76	EP17	25.83
EP2	26.17	EP10	26.01	EP18	26.08
EP3	26.48	EP11	26.32	EP19	25.78
EP4	25.96	EP12	26.12	EP20	25.62
EP5	26.54	EP13	26.29	EP21	26.08
EP6	26.09	EP14	25.76	EP22	25.86
EP7	26.08	EP15	25.85	EP23	26.07
EP8	26.22	EP16	26.43	EP24	25.65
<b>Avg. Ct</b>	<b>26.07 ± 0.30</b>	<b>Avg. Conc. (ng/ul)</b>	<b>10.8 ± 2.3</b>	<b>Avg. Yield (ng)</b>	<b>540</b>

(Above) Replicate extractions of 50 µL saliva using the TruTip Saliva Kit (single epMotion plate, n=24). Results demonstrated high reproducibility of this extraction method using the epMotion 5070 automated system.

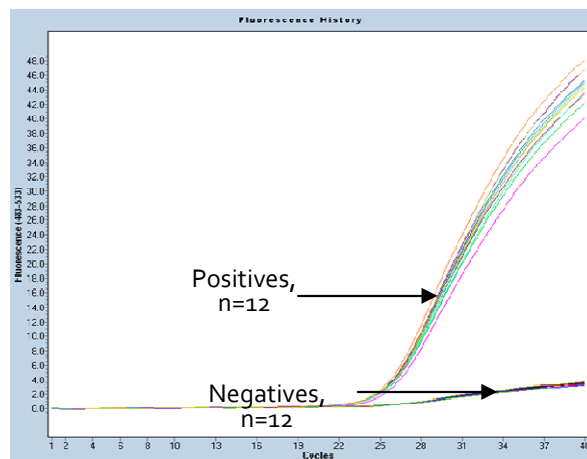
### Cross-contamination Study



Alternating samples of saliva and water were processed on a single plate according to the plate map. Results demonstrated no cross-contamination between samples on the epMotion 5070 automated system.

Avg. Ct (n=12)	Avg Conc. (ng/µL)
25.74 ± 0.09	16.2 ± 1.2

### Akonne TruTip Extraction Kit



### ORDERING INFORMATION

**TruTip gDNA Saliva Kit:** To extract and purify human genomic DNA from saliva samples.

### AUTOMATED SOLUTIONS

**300-20120 EPM TruTip gDNA Saliva Kit (EPM 1000 µL; 96 SPT Tips)** For use with the EpMotion Automated Pipetting System. Includes 96 TruTip SPT tips, lysis and binding buffer, wash buffer and elution buffer.

To order call +1 301.698.0101

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