

## Microbial DNA or RNA Extraction — Manual Method

### OVERVIEW

Nearly every life science research and molecular diagnostic laboratory requires a rapid and robust means of extracting DNA or RNA. The Akonni TruTip Kits for bacteria or viruses delivers inhibitor free, PCR-ready nucleic acids in as few as four minutes, starting from urine and culture.

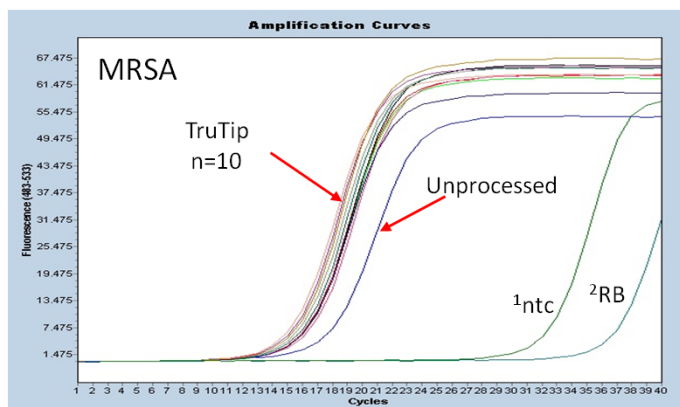
Accommodating sample volumes that range from 100 µL to 1.0 mL or greater, significant concentration of nucleic acids, on the order of 5- to 10-fold, can be achieved. This product does not require major capital equipment, service contracts, labor intensive processes, or hazardous organic extractions.

- 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.



Replicate extractions of MRSA detected by SYBR green real-time PCR. Performance using bead vortex lysis and the TruTip.

<sup>1</sup> No template PCR control - Syber green PCR primer-dimer signal

<sup>2</sup> Reagent blank (TruTip processed negative control) - Syber green PCR primer-dimer signal

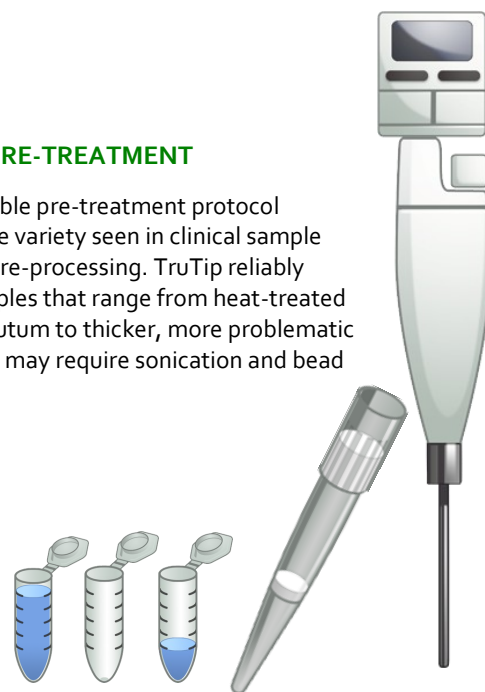
### Up to 5x's Faster!



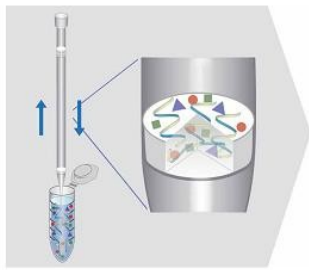
Save hours of time using TruTip to extract DNA from MTB Samples.

### FLEXIBLE PRE-TREATMENT

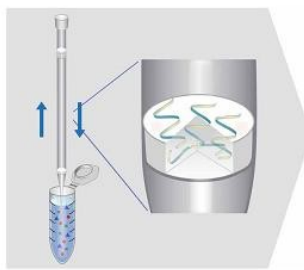
TruTip's flexible pre-treatment protocol addresses the variety seen in clinical sample quality and pre-processing. TruTip reliably handles samples that range from heat-treated culture or sputum to thicker, more problematic samples that may require sonication and bead vortexing.



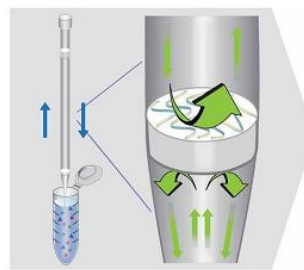
**STEP 1: Bind Acid to Matrix**



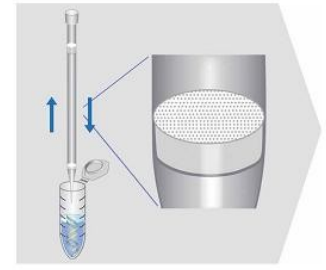
**STEP 2: Wash Away Impurities**



**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](http://www.akonni.com).

Microbial DNA or RNA Extraction Using Rainin EDP <sub>3</sub> -Plus Electronic Pipette				Starting Volume		Catalog No.	
Target	Sample Source	Pipette Size	# of Tips & Type	More Viscous & Higher Volume	Less Viscous & Lower Volume	Standard Kit	Starter Kit*
Microbial DNA	Culture, Urine	2 mL	60 LPT	250-500µL		300-10601	
			60 SPT		250-500µL	300-10600	
			30 LPT/30 SPT	250-500µL	250-500µL	300-10607	300-10606
		1.2 mL	96 LPT	≤250µL		300-10621	
			96 SPT		≤250µL	300-10620	
			48 LPT/48 SPT	≤250µL	≤250µL	300-10627	300-10626
Microbial RNA	Culture, Urine	2 mL	60 LPT	250-500µL		300-10801	
			60 SPT		250-500µL	300-10800	
			30 LPT/30 SPT	250-500µL	250-500µL	300-10807	300-10806
Microbial XT DNA with Beads for tougher-to-lyse Gram (+) bacterial pathogens	Culture, Urine	2 mL	60 LPT	250-500µL		300-10301	
			60 SPT		250-500µL	300-10300	
			30 LPT/ 30 SPT	250-500µL	250-500µL	300-10307	300-10306
		1.2 mL	96 LPT	≤250µL		300-10321	
			96 SPT		≤250µL	300-10320	
			48 LPT/ 48 SPT	≤250µL	≤250µL	300-10327	300-10326

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

To order call +1 301.698.0101  
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For Research Use Only. Not for use in diagnostic procedures. No claim or representation is intended for the diagnosis, prevention, or treatment of a disease.

US Patent #7759112 & additional patents pending.

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