

DNA Extraction of *Mycobacterium* — Manual Method

OVERVIEW

Nearly every life science research and molecular diagnostic laboratory requires a rapid and robust means of extracting DNA. The Akonni TruTip DNA Kit for *Mycobacterium tuberculosis* and *Mycobacterium avium* delivers inhibitor free, PCR-ready DNA in just minutes, starting from heat-killed sputum and liquid or solid culture.

Accommodating sample volumes that range from 100 µL to 1.0 mL or greater, significant concentration of DNA, 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.

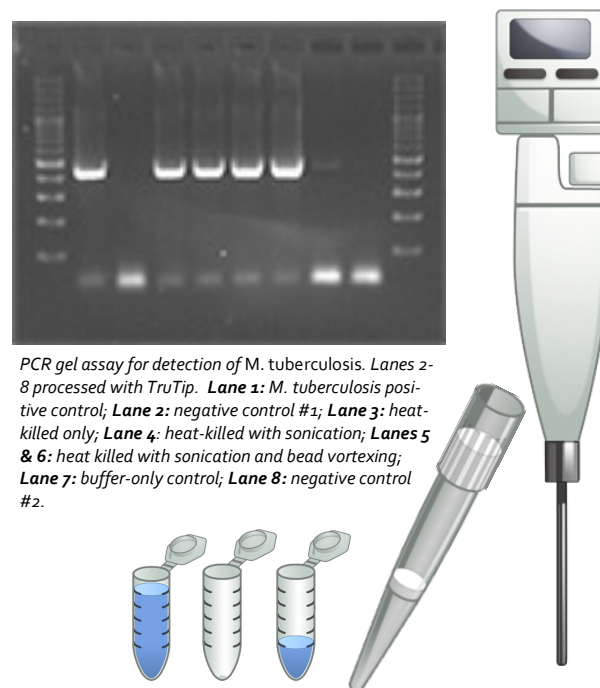
Specimen	Smear Result	C _T Value	Observed Result	Expected Result
Sputum	Numerous	Undetected	Negative	Negative
Paraspinal Fluid	Moderate	27.31	Positive	Positive
Sputum	Moderate	30.79	Positive	Positive
Sputum	Moderate	27.22	Positive	Positive
Sputum	Few	32.45	Positive	Positive
Sputum	Rare	34.66	Positive	Positive

TruTip reliably extracts *M. tuberculosis* DNA from multiple types of clinical specimens and produces results comparable to other extraction methods. C_T = crossing threshold for a TB-specific real-time PCR assay.

Up to 5x's Faster!

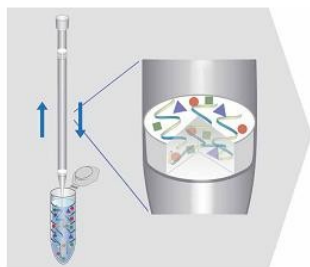


Save hours of time using TruTip to extract DNA from MTB Samples.

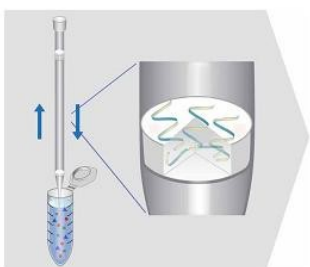


PCR gel assay for detection of *M. tuberculosis*. Lanes 2-8 processed with TruTip. **Lane 1:** *M. tuberculosis* positive control; **Lane 2:** negative control #1; **Lane 3:** heat-killed only; **Lane 4:** heat-killed with sonication; **Lanes 5 & 6:** heat killed with sonication and bead vortexing; **Lane 7:** buffer-only control; **Lane 8:** negative control #2.

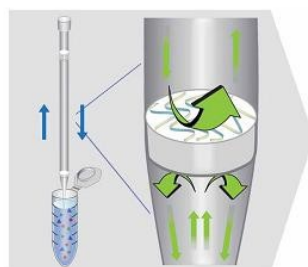
STEP 1: Bind Acid to Matrix



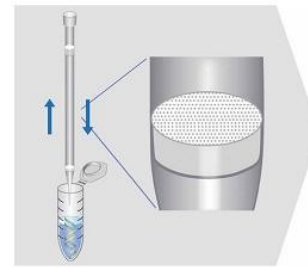
STEP 2: Wash Away Impurities



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 *Mycobacterium* Kit for DNA: To extract and purify DNA from culture, sputum or sediment in volumes of 250-500µL.



Catalog #
Call for Info

Description

TruTip MTB DNA Extraction Kit (2mL; 60 LPT Tips) for use with the Rainin's EDP® 3-Plus Pipette. Includes 60 TruTip LPT tips, lysis and binding buffer, wash buffer and elution buffer.

Call for Info

TruTip MTB Starter Kit. Includes Rainin EDP-3 Plus Pipette in addition to the LPT tips, lysis and binding buffer, wash and elution buffer..

To order call +1 301.698.0101

info@akonni.com | sales@akonni.com | support@akonni.com

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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CORPORATE HEADQUARTERS

TP-DS-004 1109.1

400 SAGNER AVE, SUITE 300

FREDERICK, MD 21701

PH: 301.698.0101

FX: 301.698.0202

WWW.AKONNI.COM