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PrepFiler™ BTA Forensic DNA Ex...



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Applied Biosystems™

# PrepFiler™ BTA Forensic DNA Extraction Kit

The PrepFiler BTA Forensic DNA Extraction Kit has been developed for the extraction of DNA from calcified tissues (bone, [Read more](#)

Have Questions? [Contact Us](#)

Catalog Number	Quantity
4463352	1 kit

Catalog number 4463352	★
e (MDL) / Each	
-	

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Product Overview

Figures

Documents

The PrepFiler BTA Forensic DNA Extraction Kit has been developed for the extraction of DNA from calcified tissues (bone, tooth), as well as certain adhesive-containing samples such as cigarette butts, tape lifts, and envelope flaps. The kit enables DNA yields and purity comparable to or better than conventional phenol-chloroform-based methods, with an approximate processing time of only 2 to 3 hours.

Optimized for use with bone and tooth, as well as other adhesive-containing samples, and allows you to obtain DNA yields and purity comparable to or better than conventional phenol-chloroform-based methods

- Enables fewer tube transfers and greater overall ease of use than conventional methods, thus minimizing the opportunity for sample mix-ups or contamination
- Utilizes a simple, robust protocol that facilitates ease of implementation and training, and is more “tolerant” to a range of experience levels
- Significantly reduces processing time for bone and tooth by requiring a shorter lysis time (approximately 2 hours) compared to standard phenol-chloroform-based methods (approximately 18-48 hours)

Improved Packaging and Configuration

Several packaging and configuration improvements have been implemented for the updated PrepFiler kits:

- An additional wash buffer, PrepFiler Wash Buffer B, has now been incorporated into the kits to minimize the potential for detergent carryover from PrepFiler Wash Buffer A, which can inhibit downstream PCR applications when the maximum volume of DNA extract is used for subsequent PCR amplification.
- The kit packaging has been updated to include all reagents, including magnetic particles, in the same kit box, with a single expiration date.
- Shipping will occur at ambient temperature, and the kits can also be stored upon receipt at ambient temperature.

All plastics consumables for use with the PrepFiler kits will now only be sold separately, to provide the ordering flexibility to select only the plastics consumables needed. Those plastics include:

- PrepFiler Filter Columns for substrate removal and PrepFiler Spin Tubes for sample processing in tube format
- 2 mL Microcentrifuge Tubes and Caps for lysis steps using bone, tooth, or tape
- Non-stick RNase-free Microfuge Tubes (1.5 mL) for optional use with the manual PrepFiler workflow to process the extract after substrate removal (i.e., if the standard PrepFiler Spin Tube cap does not securely close) or for final storage of eluted DNA

For Research Use Only. Not intended for any animal or human therapeutic or diagnostic use.

Specifications

Format

Filter Column, Tube

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For Use With (Application)	Forensic Testing
High-throughput Compatibility	Not High-throughput Compatible (Manual)
No. of Reactions	100
Product Line	PrepFiler
Quantity	1 kit
Shipping Condition	Room Temperature
Target	Forensic DNA
Test Time	2 hr. to 3 hr.
Unit Size	Each

Contents & Storage

The kit includes all reagents, including magnetic particles, in the same kit box, with a single expiration date.

- PrepFiler Lysis Buffer
- PrepFiler Magnetic Particles
- PrepFiler BTA Lysis Buffer
- PrepFiler Wash Buffer A Concentrate
- PrepFiler Wash Buffer B Concentrate
- PrepFiler Elution Buffer Proteinase K

Store all kit components at room temperature (18—25 °C)

All plastics consumables for use with the PrepFiler kits are sold separately.

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Sample

Lysis

DNA Binding

Wash/Purify

DNA Elution

PrepFiler® Lysis Buffer or PrepFiler® BTA Lysis Buffer

PrepFiler® Magnetic Particles

PrepFiler® Wash Buffers

PrepFiler® Elution Buffer

Step-wise Protocol

Sample Amount	Method	Approx. Concentration (ng/µL)
200 ng	PF BTA	0.04 - 0.06
	C1	0.01 - 0.02
	PF	0.005 - 0.01
50 ng	PF BTA	0.02 - 0.04
	C1	0.005 - 0.01
	PF	0.002 - 0.005
25 ng	PF BTA	0.01 - 0.02
	C1	0.002 - 0.005
	PF	0.001 - 0.002

DNA Obtained vs Other Methods

Method	Approx. Number of Loci
PF BTA	6 - 8
C1	2 - 4
PF	1 - 2

Informa vs Othe

Documents & Downloads

Certificates

Search by lot number or partial lot number

Search

Lot #	Certificate Type	Date	Catalog Number(s)
<a href="#">2501089</a>	Certificate of Analysis	May 27, 2025	4463352
<a href="#">2410088</a>	Certificate of Analysis	Nov 13, 2024	4463352
<a href="#">2408087</a>	Certificate of Analysis	Sep 18, 2024	4463352
<a href="#">2406086</a>	Certificate of Analysis	Jul 16, 2024	4463352
<a href="#">2310084</a>	Certificate of Analysis	Dec 05, 2023	4463352

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Product Information

Manuals

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-  [Product Sheet: PrepFiler BTA Forensic DNA Extraction Kit](#)
-  [Product Insert: 16-Position Magnetic Stand](#)

Product Bulletins

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-  [Brochure: PrepFiler Express and AutoMate Express DNA extraction systems](#)

Scientific Resources

Application Notes

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-  [Application Note: Get more answers from challenging bone samples using the latest tools in forensic DNA analysis](#)

Brochures

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-  [Green Fact Sheet: Shrink Wrap Outer Packaging](#)

Flyers

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