






Sample prep

All the DNA you need in just 25 minutes

MagMAX Saliva gDNA Isolation Kit

The Applied Biosystems™ MagMAX™ Saliva gDNA Isolation Kit is a rapid and user-friendly solution for purifying genomic DNA from saliva. With minimal steps, an affordable price, and comprehensive support, customers can process more samples with consistent results.

How it works for you

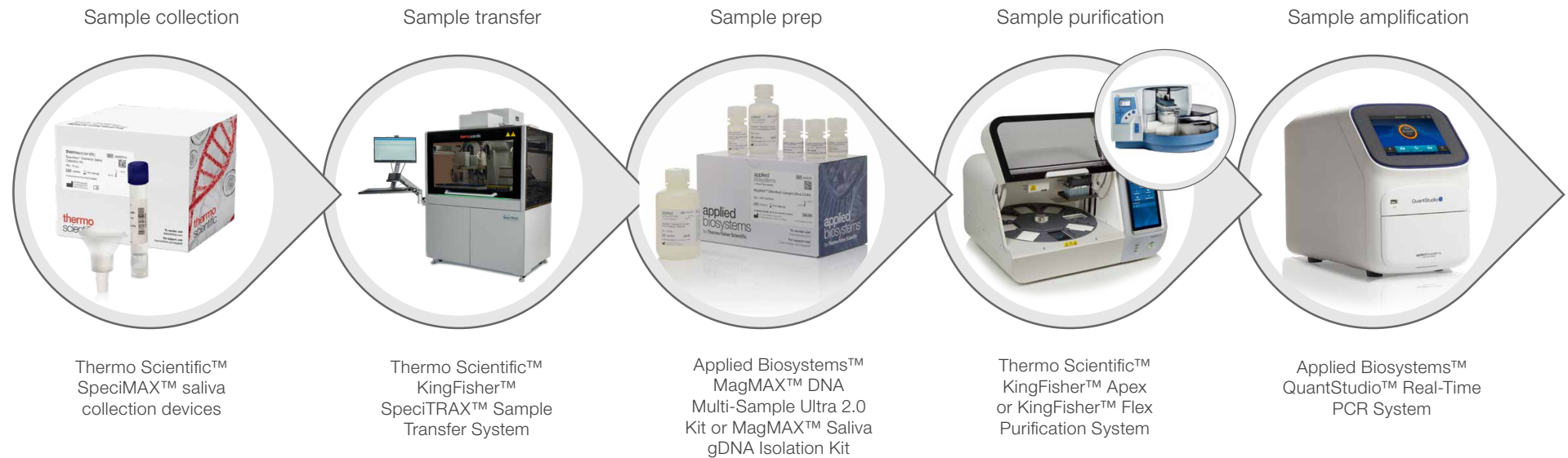
 Fast	 Adaptable	 Compatible	 Affordable	 Automation ready
20 min instrument time and only 5 min for sample processing	Run 96 (200–500 µL) or 24 (0.5–2 mL) samples based on your input	High-quality purified gDNA compatible with microarray, PCR, and NGS downstream applications	Competitive low price per reaction	Designed for Thermo Scientific™ KingFisher™ instruments

Why use saliva?

For genetic testing, saliva has advantages over blood and buccal swabs:

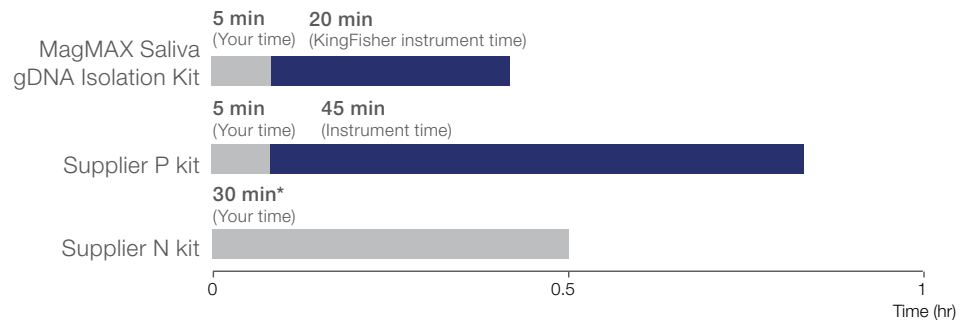
- Can be collected at home
- No phlebotomist needed (about \$49 per blood draw)
- Tolerates broad range of temperatures (–20°C to 50°C) with stabilization agent; blood requires refrigeration
- Ship and store saliva at room temperature; blood requires constant refrigeration
- Easier adoption and participation than blood draw
- Buccal swabs tend to be more variable between samples, donors, and collection events
- Can get 20 times more gDNA from a 500 µL saliva sample compared to a buccal swab
- Sample handling for buccal swabs is challenging because a larger volume is required to cover the entire swab
- Saliva is already in liquid form and can be handled in a high-throughput environment with a liquid handler or manual pipettor

High-throughput sequencing workflow



The KingFisher SpecITRAX system automates the manual steps prior to nucleic acid extraction, which helps increase overall workflow efficiency. One KingFisher SpecITRAX system feeding two KingFisher instruments delivers real-time PCR (qPCR) results of 192 samples in 3 hours and 15 minutes.

Fast processing time



Consistent gDNA yield

- Yield average = 3.53 µg (micrograms) of gDNA
- Total gDNA yield range = 0.15–13.54 µg
- 97% of donor saliva samples yielded greater than 300 ng of gDNA

* Supplier N's total run time is based on processing only 10 samples vs. the 96 samples that can be processed by the MagMAX Saliva gDNA Isolation Kit or Supplier P's kit.

Customer spotlight

Challenge: Genetic testing companies have drastically increased their throughput of processing gDNA from saliva samples. The main challenge they face is increasing processing speed and capacity while maintaining accuracy.

Our solution: Our MagMAX Saliva gDNA kit can process samples faster—up to 96 saliva samples in a single 25-minute workflow on a KingFisher Apex or KingFisher Flex Purification System at a minimal cost per sample.

Outcome: A single lab technician can process up to 1,536 saliva samples in eight hours using just one KingFisher Apex instrument.

We will be there to support you with technical advice to set up or scale your sample prep needs.

Ordering information

Product	Quantity	Cat. No.
Kits		
MagMAX Saliva gDNA Isolation Kit	1 kit (100 rxn)	A39059
MagMAX Saliva gDNA Isolation Kit	1 kit (500 rxn)	A39060
MagMAX DNA Multi-Sample Ultra 2.0 Kit*	1 kit	A36570
KingFisher Ready DNA Ultra 2.0 Prefilled Plates, for KingFisher Flex instruments	1 kit 96 preps	A36586
Stand-alone components		
MagMAX Saliva gDNA Binding Beads	1,000 rxn	A39061
MagMAX Saliva gDNA Wash I Solution	1,000 rxn	A39062
MagMAX Saliva gDNA Lysis/Binding Solution	1,000 rxn	A39063
MagMAX Saliva gDNA Elution Solution	1,000 rxn	A39064
MagMAX™ DNA Multi-Sample Ultra 2.0 Proteinase K	45 mL	A36578
MagMAX DNA Multi-Sample Ultra 2.0 Wash I Solution	1.1 L	A36580
MagMAX DNA Multi-Sample Ultra 2.0 Lysis/Binding Solution	450 mL	A36581
MagMAX DNA Multi-Sample Ultra 2.0 Elution Solution	120 mL	A36582
MagMAX DNA Multi-Sample Ultra 2.0 Enhancer Solution	45 mL	A36583

* One kit can process 100–200 samples by sample volume. One kit is sufficient to process 200 50–200 µL samples or 100 200–400 µL samples.

Find out more at thermofisher.com/specimaxsaliva
thermofisher.com/magmax or
thermofisher.com/kingfisher