



Fast and Simple Genomic DNA

AGENCOURT® ORAPURE™

BUCCAL CELL DNA ISOLATION KIT

The Agencourt Orapure Buccal Cell DNA Isolation Kit is a simple, streamlined method for isolating genomic DNA from buccal cells that is suitable for downstream PCR*-based applications and SNP genotyping. This method utilizes the power of SPRI® (Solid Phase Reversible Immobilization) magnetic bead technology that allows for scalability, automation compatibility and a streamlined protocol. Agencourt Orapure is compatible with swab and mouthwash sample collection techniques.

Key Features:

- Multiple sample collection techniques
- Easy-to-use protocol
- High recovery of DNA
- Automation-friendly
- Tube or 96-well plate format

User and Automation-Friendly

SPRI magnetic bead-based technology is scalable and can be automated on platforms such as the Beckman Coulter Biomek® line of robots. Utilizing an easy-to-use format, this kit supports both swab and Scope mouthwash sample collection techniques. Agencourt Orapure delivers superior performance with high purity and yield from tube or 96-well formats.

Superior Microparticles—Superior Purifications

The superior performance of SPRI is the result of the unique properties of the chemistry and the highly engineered Sera-Mag microparticles manufactured by Seradyn. A proprietary core-shell manufacturing process results in complete iron encapsulation and highly uniform bead size. The non-silica, carboxylate-modified coating overcomes the limitations of silica-based purifications, such as high non-specific binding. The fast magnetic response time, extremely slow settling rates, and a high surface area to mass ratio of the Sera-Mag microparticles make SPRI cost effective, highly efficient and automation-friendly.

Recovery and Consistent Performance

Genomic DNA purified with the Agencourt Orapure Buccal Cell DNA Isolation Kit produces consistent PCR results. Yields range from 50 to 1,000 ng depending on the individual as well as the collection method employed (Figures 1 and 2). These yields are sufficient for several PCR reactions. The Scope mouthwash method showed linear recovery in tests from 150 to 450 μ L of starting source material (Figure 3).

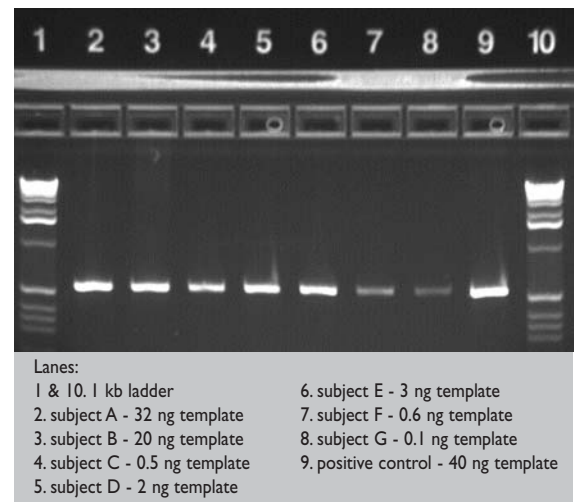
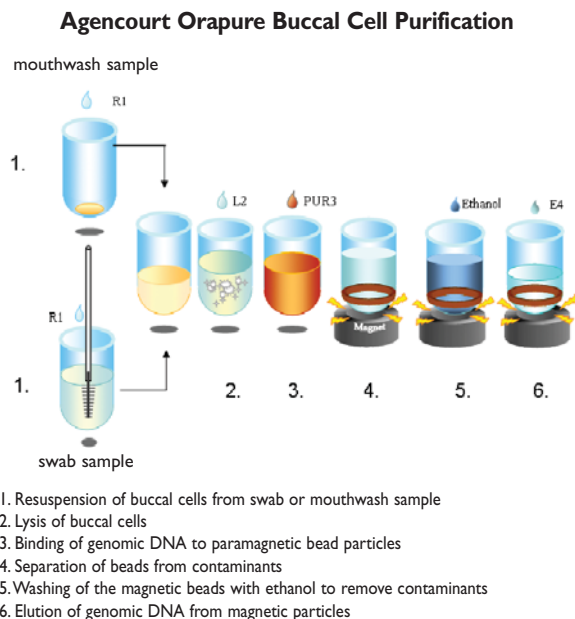


Figure 1. 2 μ L of each isolated template from mouthwash was placed into 10 μ L PCR reactions with ARF1 primers and Accuprime SuperMix and then run on 2% E-Gel for 25 minutes.

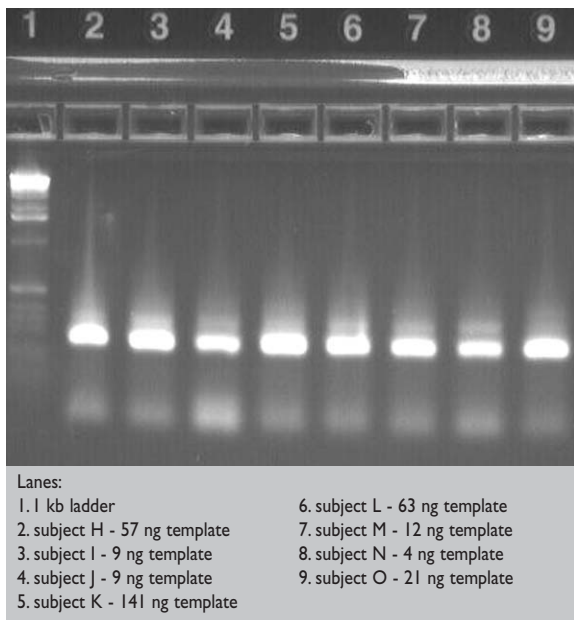


Figure 2. 2 μ L of each isolated template from swab was placed into 10 μ L PCR reactions with human cytoskeletal b-actin primers and Accuprime SuperMix and then run on 2% agarose for 25 minutes.

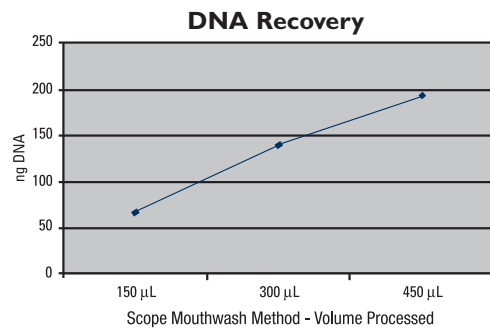


Figure 3. Spectrophotometer absorbance readings were taken from 150, 300 and 450 μ L reaction volumes.

Summary

The Agencourt® Orapure™ Buccal Cell DNA Isolation Kit is a simple, scalable, and automatable method for purifying genomic DNA from cheek buccal cells. The kit provides a quick and efficient purification process utilizing SPRI magnetic bead technology. It supports multiple collection methods while also maintaining a high recovery of genomic DNA and consistent PCR results.



Ordering Information

For product pricing, please visit our website at www.agencourt.com or contact your local sales representative.

Product	Size	Product #
Agencourt Orapure Buccal Cell DNA Isolation Kit, Tube Starter Kit (includes 100 cytobrush swabs)	100 preps	003051
Agencourt Orapure Buccal Cell DNA Isolation Kit, 96-Plate Starter Kit (includes 100 cytobrush swabs)	100 preps	003052
Agencourt Orapure Buccal Cell DNA Isolation Kit (includes 100 cytobrush swabs)	100 preps	001053

* The PCR process is covered by patents owned by Roche Molecular Systems, Inc., and F Hoffmann-La Roche, Ltd. All trademarks are the property of their respective owners.



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