

New BuccalAmp™ DNA Extraction Kit Revolutionizes Buccal Sample Collection and Processing

EPICENTRE's new BuccalAmp™ DNA Extraction Kits are single-tube systems for rapid preparation of DNA from buccal (cheek) samples for use in PCR amplification assays. BuccalAmp Kits incorporate a new QuickExtract™ DNA Extraction Solution that permits processing of samples using a simplified new protocol (Figure 1).

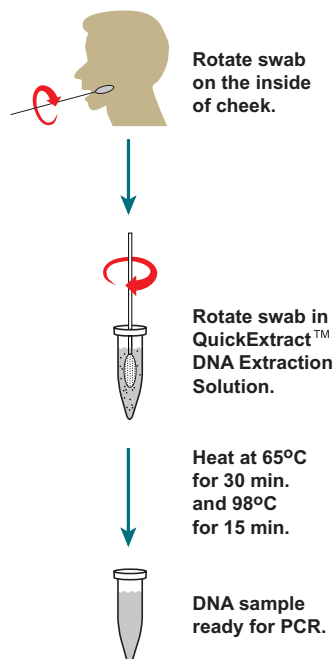


Figure 1. Procedure for obtaining PCR-ready DNA using the BuccalAmp™ DNA Extraction Kit.

The QuickExtract Solution is pre-allocated into individual sample tubes. To obtain PCR-ready DNA, just rotate the buccal sample swab in one of these tubes, mix and heat. No centrifugation step is needed, making it easy to process one to hundreds of samples in less than an hour-without phenol, chloroform, or other toxic organic solvents.

Buccal samples are easy to collect and transport

BuccalAmp Kits include Catch-All™ Sample Collection Swabs—a soft foam swab on a soft, flexible plastic handle (Figure 2). Catch-All Swabs provide gentle, safe buccal sample collection, even for infants, and the porous foam on these swabs catches more of the sample

than buccal brushes. The use of buccal (cheek) samples eliminates the time and discomfort required for sample collection by blood draws and minimizes exposure to harmful pathogens. Nor does sample collection require a health care professional.

Catch-All Swabs are provided individually packaged in sterile hard-pack plastic cylinders. After collecting the sample, return the sample swab to the cylinder package, for safe, secure storage and transport from the collection site to the analysis site.

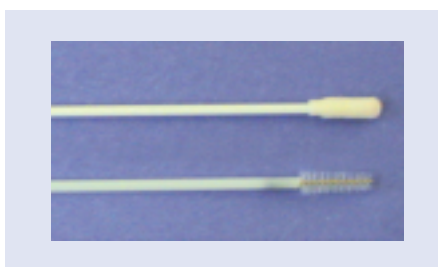


Figure 2. Catch-All Sample Collection Swabs (upper) are gentle and effective - even for pediatric sampling. The porous swab improves DNA yields by absorbing more sample than standard buccal brushes (lower).

High yields of PCR-ready genomic DNA

Buccal DNA yield per individual ranges from 1-7 µg - more than other methods and enough to perform at least 100 PCR assays. The DNA obtained is suitable for PCR amplification of even difficult sequences, including both GC-rich sequences (Figure 3) and long amplifications (Figure 4).

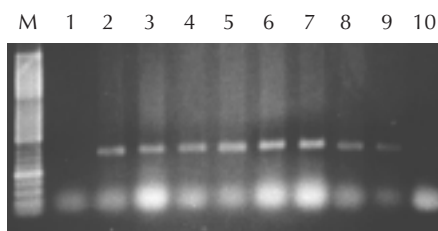


Figure 3. PCR amplification of the GC-rich tumor necrosis factor gene from DNA obtained from 9 individuals using the BuccalAmp™ DNA Extraction Kit. The 740-bp product was amplified using the FailSafe™ PCR System. Lane M, 100 bp ladder; Lane 1, negative control.

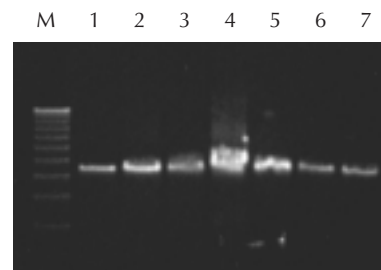


Figure 4. PCR amplification of a 5.5 Kb sequence from DNA obtained from 7 individuals using the BuccalAmp™ DNA Extraction Kit. DNA was amplified using the FailSafe™ PCR System. Lane M, Kb ladder.

Useful for many applications

BuccalAmp DNA Extraction Kits and Catch-All Sample Collection Swabs are useful for any application benefiting from rapid, easy extraction of PCR-ready DNA from Buccal samples. Examples include human or animal identity testing, SNP analysis, and assays for viruses, bacteria, and other microorganisms.

Since no centrifugation step is used, BuccalAmp DNA extraction is easily automated in a 96-well format. QuickExtract DNA Extraction Solution and Catch-All Sample Collection Swabs are available separately and in bulk for high throughput applications.

BuccalAmp™ DNA Extraction Kit

BQ0901S	1 Kit
BQ0908S	8 Kits
BQ0916S	16 Kits

Contents:

15 tubes (1 extraction/tube) of BuccalAmp™ QuickExtract™ Solution 1.0.
15 individually-packaged sterile Catch-All™ Swabs.

QuickExtract™ DNA Extraction Solution 1.0

QE09050 50 ml
Bulk solution, sufficient to perform 100 extractions.

Catch-All™ Sample Collection Swabs

QEC091H 100 swabs
100 individually-packaged swabs in sterile hard-pack plastic cylinders.

Contact EPICENTRE or your local distributor to discuss discounts for larger quantities, special packaging, or standing orders for any of the above items.