

illustra Ready-To-Go GenomiPhi V3 DNA Amplification Kit

Introduction

Product codes

25-6601-24

25-6601-96

25-6601-97

Important

Read these instructions carefully before using the products.

Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

Safety

For use and handling of the products in a safe way, refer to the Safety Data Sheets.

Storage

Store at ambient temperature to expiry date. Once opened, completely reseal the pouch containing the Ready-To-Go™ GenomiPhi™ HY DNA amplification kit cakes. To ensure maximum shelf life and optimal performance storage in a desiccator is recommended. Open product may be stored by resealing the pouch and folding the sealed edge over several times and sealing with a clip. Store reconstituted Control DNA at -20°C. For longer-term stability, once opened, store 2× Denaturation Buffer at 2–8°C.

DO NOT allow reconstituted reagents to warm above 4°C prior to amplification

Description

illustra™ Ready-To-Go GenomiPhi V3 DNA Amplification Kit is part of the Phi29 DNA polymerase family of products from Cytiva. It contains all of the components necessary for whole genome amplification by isothermal multiple strand displacement. The reaction mixture is provided as predispensed, single-dose, lyophilized cakes in either strips of 8 tubes, or 96-well plates.

Amplification is highly uniform over the entire genome so that locus representation remains extremely close to the original DNA sample. Furthermore, amplification is carried out with very high fidelity due to Phi29 DNA polymerase proofreading activity. The average product length is over 10 kb

Short Protocol

Note: *The Short Protocol is appropriate for researchers who have optimized their GenomiPhi reactions. First-time users must review the Full Protocol. The full protocol can be obtained by visiting [cytiva.com](https://www.cytiva.com) or by contacting your local Cytiva Technical Support Group.*

Step	Action
1	Heat denaturation of template in sample buffer Mix 1 µl of template DNA (at least 10 ng) with 9 µl of H ₂ O and 10 µl 2× denaturation buffer Heat to 95°C for 3 min. Cool to 4°C on ice.
2	Preparation of amplification reaction For each amplification reaction add the 20 µl denatured sample to the Ready-To-Go GenomiPhi V3 freeze-dried cake.
3	Incubation at 30°C Close tubes with caps (provided) and incubate the sample at 30°C for 90 minutes (2 hours suggested for crude lysates).
4	Post-amplification heat inactivation Heat the sample to 65°C for 10 min. Cool to 4°C.
5	Optional purification of amplified products Purify amplified material if necessary.

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