

Condaene®

**Condagene® Quick
Extraction Kit (CAT. 6501)**

Purpose, features and context

Purpose

The purpose of this reagent is the extraction/purification of DNA contained in samples with moderate or low levels of PCR inhibitors.

With this reagent, genomic DNA can be obtained quickly, without the need for enzymatic digestions, phenol/chloroform or separation columns.

Features and Context

The samples contained in a microtube are subjected to thermal lysis in the absence of chaotropic agents but with a combination of resins that retain different organic molecules and ions, which could affect the quality of the DNA. Moreover, the reagent buffer contains neutralizing PCR inhibitors with high molecular weight (i.e humic acids) non removed by the resins.

Instructions for use

Contents

This product contains a container with 25 mL of reagent, enough to process at least 100 samples.

Additional equipment required

- Variable volume pipette 100-1000 μ L.
- Filter pipette tips.
- Thermal block with agitation, 100-95°C.
- Boil proof microcentrifuge tubes.
- Tube rack.
- Microcentrifuge.
- Vortex or tube mixers (1000 rpm, at least).

Storage and preservation

This kit is sent at room temperature, it can be kept without refrigeration until the moment of opening, once opened keep refrigerated (3-5°C), it will remain stable for up to one year.

Microbiological state

Sterile products.

Preparation of reagents

This reagent is ready for use.

General Rules

Carefully read the safety data sheets for this and all the products you will use throughout the workflow.

This product is manufactured and sold for quality control in food/environmental samples, it has not been designed for any other use, especially for the diagnosis of infectious diseases. Its use must be carried out by experienced and qualified personnel in the handling of potentially dangerous chemical products.

Users must make independent decisions about the integrity of the information based on all available sources. Condalab is not responsible for any damage caused by handling or contact with the product.

Operation procedure

Actions to be performed before starting

All PCR workflows must be carried out under conditions that prevent environmental contamination. It is recommended that in each series you include at least one blank to keep contamination risks under control.

- Remove the reagent from the refrigerator.
- Put the reagent on the magnetic stirrer, at a sufficient speed to guarantee a correct homogenization.
- Start the thermal block, and set the temperature to 95°C.

The protocol begins on a pellet of the sample, obtained by centrifuging for at least 10-13,000 g for 10 minutes, which can have a diverse nature.

Protocol

1. Add 0.2 mL of Reagent.
2. Homogenize with the help of the Vortex.
3. Incubate at 95°C while shaking for 10 minutes at least at 1000rpm. If a stirred thermal block is not available, homogenize 2-3 times, with the help of a Vortex, during the heat treatment.
4. Remove the tubes and centrifuge at 10-13,000 g for 1-2 minutes.

The supernatant can be used immediately in a PCR. Take care to take the test aliquot from the top and avoid the carry-over of solid matter, such as resins, as it could affect the performance of the PCR.

If it is necessary to conserve the DNA, transfer 0.1 mL to a new tube and store at least -20°C.

Note: If you are going to measure the quantity of DNA and its purity by spectrophotometric methods, remember that the equipment blank cannot be performed with water or TE buffer, it must be performed with a solution based on the reagents used otherwise you will be overestimating the amount of DNA and its impurity.

Trademarks and licenses

The use of this product may be covered by Licenses, patents or pending patent applications. Customers who receive this product may use it for research and quality assessment in foodstuffs without infringing intellectual property rights.

The use of this product is not intended for therapeutic purposes or domestic, agricultural or cosmetic use. It must be used under the supervision of a technically qualified person experienced in the handling of potentially hazardous chemical products. Users should make independent decisions as to the integrity of the information based on all available sources.

The manufacturer shall not be held liable for any damage resulting from the handling of or contact with this product.



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If you need more information about qPCR products and techniques for pathogen detection, do not hesitate to contact us.