ZEROprep[™] DNA Reagent

For research use only

Store at room temperature Catalogue Numbers ZDR005 ZDR050 ZDR100

Quantity 500 μl 50 ml 100 ml



Introduction

ZEROprep[™] DNA Reagent is designed for efficient release of DNA for direct use in PCR reactions without purification. A wide variety of samples are effectively homogenized in the reagent without any pre-treatment or subsequent bind, wash or elution steps. Simply place the sample in the reagent, follow the 2 step protocol and transfer the lysate to a PCR mix.

Quality Control

ZEROprep[™] DNA Reagent is tested on a lot-to-lot basis according to Geneaid's ISO-certified quality management system. DNA from a 1 mg tissue sample is lysed in ZEROprep[™] DNA Reagent. A 5 µl aliquot of lysate is added directly into a 50 µl PCR mix.

Advantages

- Use DNA directly in PCR reactions
- DNA purification is not required
- 15 minute 2 step protocol
- Wide variety of sample types (tissue, blood, plant, bacteria, yeast/fungus, virus)

Applications

Direct use of DNA in PCR reactions, multiplex PCR, Real-time PCR

Caution

During operation, always wear a lab coat, disposable gloves, protective goggles or (anti-fog) procedure mask.

ZEROprep[™] DNA Reagent Protocol Procedure

Please read the entire instruction manual prior to starting the Protocol Procedure

Sample	Procedure
Tissue	1. Transfer 50 µl of ZEROprep™ DNA Reagent and 1 mg of tissue to a 1.5 ml microcentrifuge tube.
	2. Incubate for 15 minutes at room temperature or 5-15 minutes at 80°C.
	3. Mix by vortex then transfer a 2-5 µl aliquot to a 20-50 µl PCR mix.
Plant Tissue ¹	1. Transfer 200 μl of ZEROprep™ DNA Reagent and 5-25 mg of tissue to a 1.5 ml microcentrifuge tube.
	2. Incubate for 15 minutes at room temperature or 5-15 minutes at 80°C.
	3. Mix by vortex then transfer a 2-5 µl aliquot to a 20-50 µl PCR mix.
Whole Blood, plasma, serum	1. Transfer 100 μl of ZEROprep [™] DNA Reagent and 5-10 μl of fluid sample to a 1.5 ml microcentrifuge tube.
	2. Incubate for 15 minutes at room temperature.
	3. Mix by vortex then transfer a 2-5 µl aliquot to a 20-50 µl PCR mix.
Saliva	1. Transfer 100 μl of ZEROprep [™] DNA Reagent and 10 μl of saliva to a 1.5 ml microcentrifuge tube.
	2. Incubate for 15 minutes at room temperature or 10 minutes at 80°C.
	3. Mix by vortex then transfer a 2-5 µl aliquot to a 20-50 µl PCR mix.
Bacteria ²	1. Transfer 100 μl of ZEROprep™ DNA Reagent and 1-5 μl of bacteria culture to a 1.5 ml microcentrifuge tube.
	2. Incubate for 15 minutes at room temperature or 10-15 minutes at 80-90°C.
	3. Mix by vortex then transfer a 2-5 µl aliquot to a 20-50 µl PCR mix.
NOTE	

NOTE:

¹For plant species with high levels of polysaccharide inhibitors, increase the tissue amount by 2-3 times per volume of ZEROprep[™] DNA Reagent. Plant tissue homogenization using a bead beating instrument or pestle and mortar with liquid nitrogen will facilitate DNA release. ²*E.coli* can be efficiently lysed in ZEROprep[™] DNA Reagent for 15 minutes at room temperature. However, to efficiently disrupt the bacteria cell wall of gram (+) bacteria, 3 hour incubation at room temperature or 10-15 minutes at 80°C is required.