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rapid, enabling solutions for biotechnology



DNA Extraction Using prepGEM™ Saliva

Zygem Quick-Start Guide

QGPSAI

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 Zygem Corp Ltd. Research Use Only. All products are subject to a
 stored at -20°C.
 been opened and for longer term storage, reagents should be
 The prepGEM™ reagents are stable at 4°C but after tubes have
 (10 mM Tris, pH 7.5, 1 mM EDTA) and store at -20°C.
 For long term storage of the extracted DNA, add TE buffer to 1x
 before and after extraction.
 results are obtained when samples are handled at 4°C, or on ice,
 As with any preparative method for nucleic acid extraction, best
 swabs release agents that react with the dyes.
 affected by the type of swab used for collecting the sample. Some
 Yield measurement using fluorescent chelating dyes can also be
 quantification, then this factor should be taken into consideration.
 standard fluorescent chelating dyes are to be used for
 DNA produced by prepGEM™ is approximately 90% single-
 For accurate yield assessment, a qPCR is recommended. The
 because of the 95°C heat step.
 DNA extracted using prepGEM™ is largely single-stranded
 DNA concentration.
 buffer required when washing the swab in order to maximise the
 wash the swab. We recommend using the smallest amount of
 was taken. 2) The type of swab. 3) The volume of buffer used to
 concentration is dependent on: 1) The vigor with which the swab
 There is no concentration step in the procedure and so the final
 five, multiplex and end-point PCR.
 genotyping including SNP and STR analysis as well as quantita-
 from the DNA. Extracted DNA can be used for many types of
 The prepGEM™ method lyses cells and removes nucleoproteins
 prepGEM™ Saliva is a preparative method for DNA extraction.

Technical tips for sample management

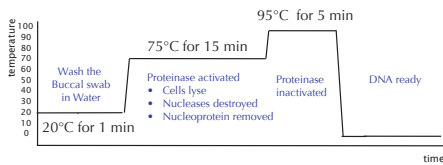
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prepGEM™ Saliva

prepGEM™ is formulated for general DNA extraction from buccal swabs and saliva.

- All manipulations should be performed in a clean-room or a PCR hood.
- Use only certified DNA-free tubes and reagents.
- Wash any equipment that will come into contact with the sample in 0.05% hypochlorite bleach. Rinse thoroughly with DNA-free water.

Procedure Outline



Extraction Method

- Wash the buccal swab in the minimum amount of DNA-free water to cover the swab. Typically, a cotton swab requires 400-500 µl. Use a rolling action against the tube sides and squeeze the swab against side to remove as much of the liquid as possible.
- In a thin-walled PCR tube add:
 20 µl of the eluate.
 10 µl of 10x Buffer **BLUE**
 69 µl of DNA free water
 1 µl prepGEM™
- Incubate at:
 75°C for 15 minutes
 95°C for 5 minutes

A thermal cycler can be used for this step

The sample is now ready for analysis. Typically, the method above yields DNA at 0.5 - 2 ng / µl.



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