



## FastGene<sup>®</sup> Dye Terminator Removal Kit

For removal of sequencing dye terminators

Cat.No.: FG-9411, 50 preparations

### **STORAGE**

Store at room temperature (15-25°C)

FastGene<sup>®</sup> Dye Terminator Removal Kits are intended for research use only.

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**CONTENTS**

**COMPONENTS**..... 3

**STORAGE AND PREPARATION**..... 3

**SAFETY INSTRUCTIONS – RISK AND SAFETY PHRASES**..... 4

**KIT SPECIFICATIONS**..... 4

**PROTOCOL**..... 5

    Sequencing reaction clean-up..... 5

**ORDERING INFORMATION**.....6

**CONTACT INFORMATION**..... 6

## COMPONENTS

<b>FastGene® Dye Terminator Removal Kit</b>	<b>50 preparations FG-9411</b>
FastGene® DT Filter Column	50
FastGene® G50 Resin	5x 525 mg
2 ml Collection Tubes	50
Resuspension Buffer DT	50 ml

### **Materials not supplied**

Consumables:	1.5 ml microcentrifuge tube Disposable pipette tips
Equipment:	Manual pipettors Centrifuge for microcentrifuge tubes Vortex mixer Personal protection equipment (lab coat, gloves, goggles)

## STORAGE AND PREPARATION

The FastGene® Dye Terminator Removal Kit should be stored dry at room temperature (15-25 °C). Under these conditions, the kit is stable for up to 12 months without showing any reduction in performance and quality.

**FastGene® G50 Resin is supplied as a dry powder, and must be allowed to swell before use. Before starting any protocol prepare the following:**

- Make sure that the FastGene® G50 Resin is collected at the bottom of the bottle.
- Apply 8.0 ml Resuspension Buffer DT into the bottle with the dry resin and mix well by vortexing a few seconds.
- Allow the FastGene® G50 Resin to swell by incubation at room temperature (15-25°C) for at least 1.5 h or overnight at 4°C.

Remark: Hydrated FastGene® G50 Resin can be stored up 14 days at 4°C. One bottle contains sufficient Resin for 10 preparations.

## **SAFETY INSTRUCTIONS – RISK AND SAFETY PHRASES**

Warning: FastGene® Dye Terminator Removal Kits are intended for research use only. The kits are not recommended or intended for diagnosis of disease in humans or animals.

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. We strongly recommend that this product is handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice.

The components of the FastGene® Dye Terminator Removal Kits do not contain hazardous contents.

## **KIT SPECIFICATIONS**

FastGene® Dye Terminator Removal Kits are designed for removal of sequencing dye terminator from sequencing reaction mixtures.

<b>Parameter</b>	<b>FastGene® Dye Terminator Removal Kit</b>
Maximum Sample Volume	20 µl sequencing reaction mix
Recovery	>90%
Preparation Time	5 minutes

## PROTOCOL

### Sequencing Reaction Clean-up

Before starting the preparation please check if sufficient hydrated FastGene® G50 Resin was prepared according to section *Storage and Preparation*. 750 µl hydrated FastGene® G50 Resin is needed per sample.

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#### *Prepare Spin Column*

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- Place a FastGene® DT Filter Column into a 2 ml Collection Tube.
- Vortex the incubated FastGene® G50 Resin in order to homogenise the mixture before loading 750 µl hydrated FastGene® G50 Resin into the column. Taking care not to trap air bubbles.
- Centrifuge at 750 x g for 3 minutes. Caution: Do not centrifuge with a higher g force than 750 x g because the hydrated resin will break by strong g force.



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#### *Purification*

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- Place the FastGene® DT Filter Column into a new microcentrifuge tube (not provided).
- Carefully load up to 20 µl sample to the centre of the gel bed surface. Add up to 20 µl of deionised water to the sample if the sample volume is less than 20 µl.
- Centrifuge at 750 x g for 3 minutes to recover purified sample. Caution: Do not centrifuge with a higher g force than 750 x g because the hydrated resin will break by strong g force.



## ORDERING INFORMATION

<b>Product</b>	<b>Cat.No.</b>
FastGene® Gel/PCR Extraction Kit (100 preps)	FG-91202
FastGene® Gel/PCR Extraction Kit (300 preps)	FG-91302
FastGene® Gel Band Cutter (50)	FG-830
FastGene® Plasmid Mini Kit (100 preps)	FG-90402
FastGene® Plasmid Mini Kit (300 preps)	FG-90502
FastGene® Dye Terminator Removal Kit (50 preps)	FG-9411

## CONTACT INFORMATION

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For more detailed product information, contact details, questions, or trouble shooting please visit our English website [www.nippongenetics.eu](http://www.nippongenetics.eu) or our German website [www.nippongenetics.de](http://www.nippongenetics.de)

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