Hi-Formamide

Catalog Number： SG7123X-25

Product description

Hi-Formamide is a high-purity deionized formamide, which can dissolve the sequencing PCR fragment products and keep the sequencing products denatured for a long time. At the same time, this product has a very low conductivity, nucleic acid fragments are dissolved in it and become the only electrolyte, and it is easy to be captured by electrophoresis during the electrical sampling process of the sequencing instrument. Therefore, the sequencing result signal using this product is high and the background signal is low. Compared to other dissolution reagents, nucleic acids can be stored in it for a long time.

Contents

Item No.	Contents	specification	Description
SG7123X-25	High purity deionized formamide	1 x 25mL	Dissolved sequencing PCR fragment products

Use steps

• Alcohol precipitation is used to remove excess dyes and other impurities from sequencing PCR products.

• Remove the thawed Hi-Formamide.

• Add 10ul Hi-Formamide to each reaction hole, and performed sample electrophoresis after dissolution.

• It is recommended that the dissolved sample should be denatured at 95˚C for 4min, and then quickly cooled in ice water for 4min before loading the sample for electrophoresis.

Problem and solution

Phenomenon	Reason	Solution
Low signal	Less nucleic acid injection	Increase the sampling time
		Replace with a new Hi-Formamide
Individual higher unrecognized signals	The dye wasn't removed thoroughly	Check whether the centrifuge is working properly
A monochromatic background signal with a large span	The sample contains alcohol components	The alcohol is fully volatilized before adding Hi-Formamide

Storage conditions

Freeze Hi-Formamide at -15˚C to -25˚C to maintain long-term storage stability. If necessary, the preparation can be stored at 2-8˚C for up to one week. If not stored frozen and exposed to air through frequent sampling, the quality of the preparation may be reduced. If frequent sampling is required, small portions of evenly divided samples are distributed and frozen into smaller tubes to minimize freeze-thaw cycles, sampling, and exposure to air and room temperature.

Guidelines for use

• The ethanol in the tube should be fully volatilized before adding Hi-Formamide. It is recommended to place the reaction plate in a ventilated place or place it in an oven at 50˚C to 60˚C for 5 to 10min.

• Do not contaminate the formulation when sampling.

• Introduction of water, acids, bases, or salts can adversely affect the quality of the product.