

GeneScan™ 350 ROX™ Size Standard

Catalog Number 401735

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Contents†	Size	Storage conditions
ROX™ dye-labeled, single-stranded DNA fragments	2 X 200 µL (800 reactions‡)	Store up to one year at 2–8°C. Do not freeze.

† With the retirement of the ABI PRISM® 377 DNA Sequencer this kit no longer contains the gel loading buffer. If you need to continue to purchase the loading buffer, it is available as a separate part (Cat. no. 402055).

‡ 800 reactions when using the recommended loading amount of 0.5 µL.

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from www.lifetechnologies.com/support.

Product description

GeneScan™ 350 ROX™ Size Standard is an internal lane size standard developed for use with the Life Technologies fluorescence-based DNA electrophoresis systems. The use of an internal lane size standard during electrophoresis enables automated data analysis and precise DNA fragment size comparisons between electrophoresis runs. GeneScan™ 350 ROX™ Size Standard is designed for sizing DNA fragments in the 35–350 bp range and provides 12 single-stranded, labeled fragments of 35, 50, 75, 100, 139, 150, 160, 200, 250, 300, 340, and 350 bases. Each of the DNA fragments is labeled with the ROX™ fluorophore, which results in a single peak when run under denaturing conditions.

Instructions for use

Sample preparation

1. Before use, mix the contents of each tube thoroughly and centrifuge briefly to collect the liquid at the bottom of the tube. Typical loading cocktails are as follows:

Component	Electrophoresis system		
	310	3130/3100 Series	3730 Series
Sample	0.5 µL	0.5 µL	0.5 µL
GeneScan™ 350 ROX™ Size Standard	0.5 µL	0.25 µL	0.5 µL
Hi-Di™ Formamide (Cat. no. 4311320)†	9.0 µL	9.25 µL	9.0 µL

† Not included in this kit.

Note: We highly recommend using the ratios of DNA sample (PCR product) and size standard presented in the table as a starting point only. Optimize the ratios if necessary, based on your experimental results. Also, see guidelines in the following section.

2. Heat the loading cocktail for 3 minutes at 95°C.
3. Immediately chill on ice for a few minutes and load samples.

Guidelines



Optimize your analysis based on the following information about use of this standard on capillary electrophoresis instruments:

- The 250 bp peak is sensitive to small temperature variations. The 250 bp fragment should not be used when defining the size standard in GeneMapper® Software.
- The 340 bp peak is subject to large temperature variations.
- Fragment analysis primer peaks can often interfere with the detection of the 35 bp peak.

Note: Discard any unused reagent that has been diluted in Hi-Di™ Formamide.

Limited product warranty

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