

GeneScan™ 1200 LIZ® Size Standard



Product P/N 4379950
Insert P/N 4379957 REV B
Printed in USA

For Research Use Only.
Not for use in diagnostic procedures.

Product Description:

GeneScan™ 1200 LIZ® Size Standard is an internal lane size standard developed for use with the Applied Biosystems fluorescence-based DNA electrophoresis systems. The use of an internal lane size standard enables automated data analysis and is also essential for achieving high run to run precision in sizing DNA fragments by electrophoresis.

GeneScan™ 1200 LIZ® Size Standard is designed for sizing DNA fragments in the 20-1200 bp range and provides 68 single-stranded LIZ® dye labeled fragments of 20, 30, 40, 60, 80, 100, 114, 120, 140, 160, 180, 200, 214, 220, 240, 250, 260, 280, 300, 314, 320, 340, 360, 380, 400, 414, 420, 440, 460, 480, 500, 514, 520, 540, 560, 580, 600, 614, 620, 640, 660, 680, 700, 714, 720, 740, 760, 780, 800, 820, 840, 850, 860, 880, 900, 920, 940, 960, 980, 1000, 1020, 1040, 1060, 1080, 1100, 1120, 1160 and 1200 bases. Each of the DNA fragments is labeled with a proprietary fluorophore, which results in a single peak when run under denaturing conditions.

Each kit contains two-200 µL tubes of the size standard. This is sufficient for 800 analyses when using the recommended loading amount of 0.5 µL.

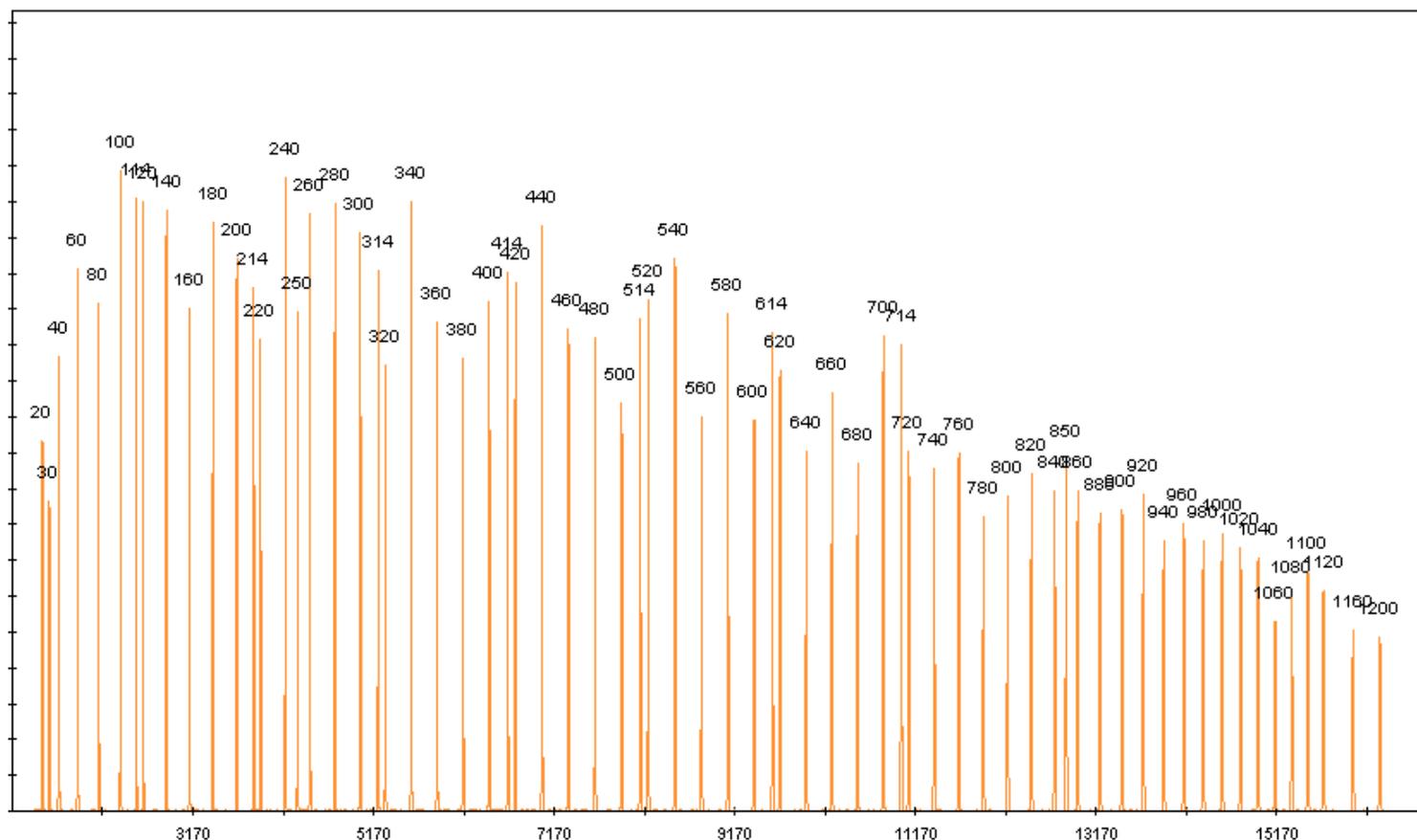
Storage Conditions:

Store the kit at 2°C to 8°C until ready to use. Do not freeze this product.

Shelf life:

Refer to the expiration date on the label. It is important that the product be stored at the recommended storage condition.

Electropherogram of the GeneScan™ 1200 LIZ® Size Standard



Instructions for use:

For the best results, a 50 cm capillary is recommended. Parameters for running the 1200 size standard are listed below. Optimization of these parameters for good sizing results may be needed.

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 described below.

	310	3130/3100 Series	3500 Series	3730 Series
Sample	0.5 µL	0.5 µL	0.5 µL	0.5 µL
Size Standard	0.5 µL	0.5 µL	0.5 µL	0.5 µL
Hi-Di™ Formamide	11.0 µL	9.0 µL	9.0 µL	9.0 µL

Note: Applied Biosystems highly recommends using the above ratios of DNA sample (PCR product) and size standard as a starting point only. Optimize these ratios if necessary, based on your experimental results. Hi-Di™ Formamide (P/N 4311320 or P/N 4440753) is not included in the kit.

- 2) Heat the loading cocktail for 3 minutes at 95°C. Immediately chill on ice for a few minutes and load samples.
- 3) If you are using GeneMapper® Software v4.0 (or previous versions), or GeneMapper® *ID* Software v3.2 (or previous versions), it is necessary to download a size standard definition file. To access the product web page and file please go to the following link - http://www.appliedbiosystems.com/support/software/genescan_sizestandards/definition.cfm
- 4) For versions of Data Collection Software that do not contain the necessary run module, please go to the following link to download the appropriate run module - http://www.appliedbiosystems.com/support/software/genescan_sizestandards/modules.cfm

The modules listed below are available. Please select the appropriate module for your instrument and array combination.

310_POP-4_GS1200LIZ
 3100_36cm_POP-4_GS1200LIZ
 3130_36cm_POP-7_GS1200LIZ
 3130_50cm_POP-7_GS1200LIZ
 3130x/36cm_POP-7_GS1200LIZ
 3130x/50cm_POP-7_GS1200LIZ
 3730x/36cm_POP-7_GS1200LIZ
 3730x/50cm_POP-7_GS1200LIZ

Note: 3730x/ modules can be used for both 3730 (48 capillary) and 3730x/ (96 capillary) instruments.

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

Safety warning:

Please read safety data sheets for further details.

Notice to Purchaser: Disclaimer of License

This product is optimized for use in the DNA sequencing or fragment analysis methods covered by patents owned or licensable by Life Technologies Corporation. No license under these patents to use the DNA sequencing or fragment analysis methods is conveyed expressly or by implication to the purchaser by the purchase of this product. A license to use the DNA sequencing or fragment analysis methods for certain research and development activities accompanies the purchase of certain Applied Biosystems reagents when used in conjunction with an authorized DNA sequencing machine, or is available from Life Technologies Corporation. Further information on purchasing licenses to practice the DNA sequencing or fragment analysis methods may be obtained by contacting Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008, or outlicensing@lifetech.com.