

Internal Lane Standard (60bp - 600bp, ROX) Product Insert for ABI Genetic Analyzer (150 μ L)

Product # 53210

Description:

- High quality ready-to-use double-stranded DNA ladder derived by recombinant technology for precise size and mass determination in various fluorescence-detection instruments including different models of Applied Biosystems® PRISM® and Genetic Analyzers.
- 22 discrete bands, ranging from 60bp to 600bp
- The ladder is asymmetrically labeled with ROX that can be detected by excitation at 576 nm and fluorescent emission at 597 nm.
- Compatible with products for fragment analysis including Promega PowerPlex® 16 System

Contents:

- 150 μ L of premixed DNA ladder (0.5 to 1 μ L per load)

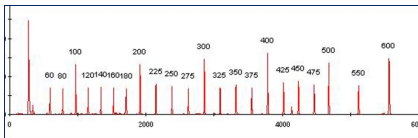


Figure 1. Internal Lane Standard resolved on an Applied Biosystems® 3130XL Genetic Analyzer. Fragments are evenly spaced at 20-, 25- or 50-base intervals for precise size determination

Instructions:

- Thaw an aliquot of the Internal Lane Standard (60bp - 600bp, ROX)
- Prepare a loading cocktail by combining and mixing Internal Lane Standard (60bp - 600bp, ROX) and Hi-Di™ formamide (Applied Biosystems®) as follows:
[(0.5 μ L Internal Lane Standard) \times (# samples)] + [(9.5 μ L Hi-Di™ formamide) \times (# samples)]
- Vortex for 10–15 seconds to mix.
- Pipet 10 μ L of formamide/internal lane standard mix into each well of a 96-well plate
- Add 1 μ L of amplified sample for fragment analysis. Cover wells with appropriate septa or cap.
- Centrifuge plate briefly to remove air bubbles from the wells.
- Denature samples as follows:
95°C for 3 minutes
4°C Hold
- Briefly spin the plate again and proceed to detection in the appropriate instrument.

Storage:

- Store at -20°C in small aliquots. For longer term storage, -70°C is recommended.
- The product is light-sensitive. Minimize light exposure.