

Manual

Product name: Matrix Standard Kit

Cat #: MSK-100

Description:

Spectral calibration of DNA sequencing instrument is critical to maintaining high throughput sequencing operations. By evaluating multicolor systems of the sequencing instrument, sequencing providers can automatically correct the spectral overlap in samples loaded onto the capillary arrays.

This matrix standard is for use with capillary electrophoresis (CE) –based genetic analyzers such as Applied Biosystem 310, 3100, 3130 and 3730 series. The DNA contained in the preparation has been lyophilized to maximize the stability and the standard has been optimized by using MCLAB’s proprietary technology. The preparation step before loading has been significantly simplified. The matrix standard is sufficient for a minimum of eight array runs (on a 24 capillary) or two array runs (on a 96 capillary).

Features:

- Easy to use lyophilized package
- Add Hi-Di™ Formamide and go
- Pre-optimized reference sequences
- Customizable for specific applications

Storage Condition: -20 °C. Avoid exposure to light.

Shipping Condition: Dry ice

Protocol:

1. Add 1 mL Hi-Di™ Formamide to the tube.
2. Vortex to resuspend the lyophilized Matrix Standard, then spin briefly.
3. Heat up to 95 °C for 2 min, and chill the tube on ice for 2 min.
4. Centrifuge the tube briefly and add 10 µL per well of the denatured Matrix Standard into a 96-well microtiter plate.
5. Centrifuge the plate briefly to pull down any residue in the wells.
6. Assemble the plate and place the plate assembly on an autosampler.
7. Follow the instrument user guide for information on how to load the matrix standard for a spectral calibration.