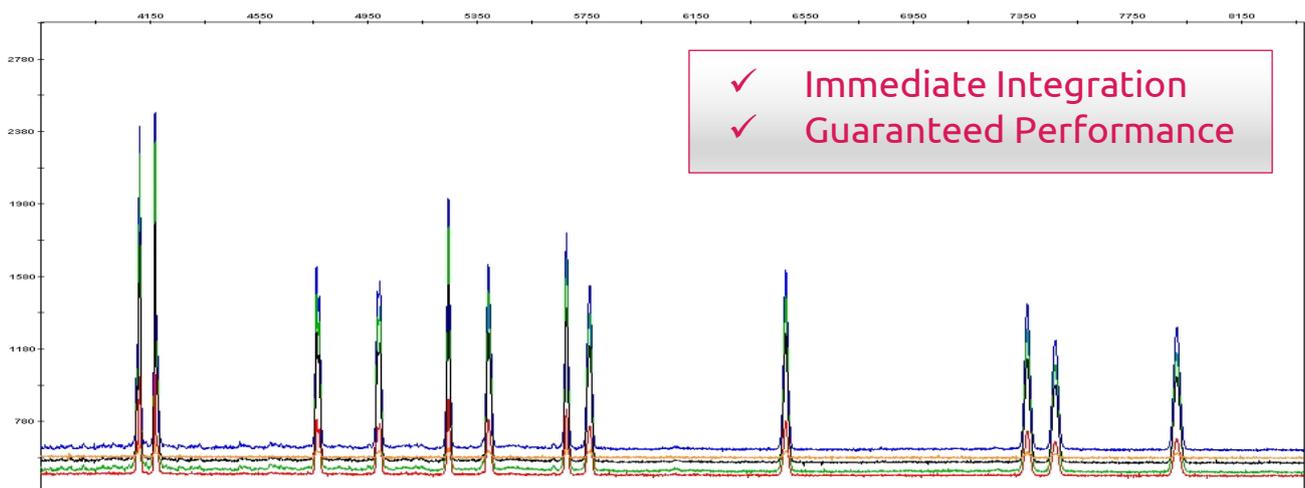


Low-Cost Fragment Analysis

Gerbera Matrix Standard Set DS-33 for the ABI PRISM® 310 Genetic Analyzer



Gerbera Matrix Standard Set DS-33 is used to generate the "multi-component matrix" required for the ABI PRISM® 310 Genetic Analyzer. The 310 Data Collection Software then utilizes the multicomponent matrix to automatically correct for spectral overlap in samples labeled with DS-33 dyes.

Matrix standards do not need to be run with every set of sample injections. A set of five matrix standards only needs to be run once in order to generate a matrix file, which is then applied to samples run under similar conditions.

Immediate Integration

Dyes in the new **Gerbera Matrix Standard Set DS-33** for the ABI PRISM® 310 Genetic Analyzer have same spectral characteristics as those in the Matrix Standard Set DS-33 (supplied in the past by Applied Biosystems, part number 4318159). Also, the workflow has been designed to match the original. Therefore, researchers using ABI PRISM® 310 can easily integrate our new **Gerbera Matrix Standard Set DS-33** into their workflow.

Guaranteed Performance

Gerbera Matrix Standard Set DS-33 for the ABI PRISM® 310 Genetic Analyzer is quality tested for correct formulation and then for consistent, reliable performance. Additionally, our expert support team is readily available to provide whatever assistance you may require.

The kit consists of four tubes. Each tube contains a mixture of 12 DNA fragments of specific sizes, each labeled with a unique fluorescent dye within the DS-33 dye set. Fluorescent spectra of these dyes match the spectra of 6FAM, VIC, NED, PET dyes.

LIZ matrix standard tube is not included in the **Gerbera Matrix Standard Set DS-33**. As a substitute, the GeneScan™ 600 LIZ™ dye Size Standard or GeneScan™ 500 LIZ™ dye Size Standard (ThermoFisher Scientific) must be used (not provided within this kit).

Gerbera Matrix Standard Set DS-33 is stable for six months when stored at -20°C.

Preparing the Gerbera Matrix Standard Set DS-33 for the matrix generation using the ABI PRISM® 310 Genetic Analyzer:

1. Thaw and thoroughly mix the contents of the four matrix tubes and spin briefly in a microcentrifuge.
2. From the four matrix tubes, pipet 1 µL of standard and 10 to 20 µL of Hi-Di™ Formamide in a 0.5 ml Genetic Analyzer Sample Tube or septa strip. Dye1 corresponds to 6FAM dye (of the original DS-33 by ABI), Dye2 to VIC, Dye3 to NED, and Dye4 to PET.
3. Pipet 1-2µL of the size standard (either GeneScan™ 600 LIZ™ dye Size Standard or GeneScan™ 500 LIZ™ dye Size Standard) and 10 to 20 µL of Hi-Di™ Formamide in a 0.5ml Genetic Analyzer Sample Tube or septa strip.
4. Cap and thoroughly vortex the contents of the five matrix tubes and spin briefly in a microcentrifuge.
5. Heat all five tubes at 95°C for two minutes to denature the DNA fragments and immediately place on ice.
6. Load each of the five-color matrix standards in a separate injection. We recommend using injection duration 3 sec, injection voltage 15000 V. You may need to optimize these parameters to reflect, for example, the sensitivity of your instrument.

7. Once finished, use the five fsa files to create the matrix file in the dedicated software. For more information refer to the software user guide.

The Hi-Di Formamide is not provided within this kit.

The Added Value

Gerbera Matrix Standard Set DS-33 for the ABI PRISM® 310 Genetic Analyzer is part of our effort to provide our clients with service and application support even for older devices whose support has been discontinued by the manufacturer.

To users of ABI PRISM® 310 Genetic Analyzer we do offer instrument inspections and repairs including spare parts supply, service contracts and application support.

If you feel uncertain about generating the multicomponent matrix on your own, our team of service engineers can perform this task for you during the next service visit.

Instrument compatibility

- ABI PRISM® 310 Genetic Analyzer

Send your orders
and inquiries to
[info@seqme.eu!](mailto:info@seqme.eu)

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