



Fragment Analyzer™ Automated CE System

Quick Start Guide – 12 Capillary

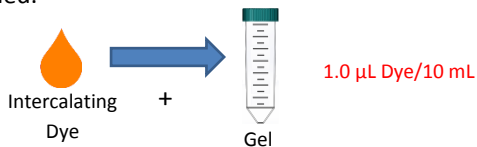
DNF-930 dsDNA Reagent Kit

(75 bp – 20,000 bp)

DNF-930
dsDNA Kit
75 bp – 20,000 bp

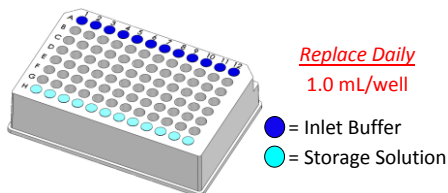
Preparation:

- Mix fresh Gel and **Dye**. Refill 1X **Conditioning Solution** as needed.



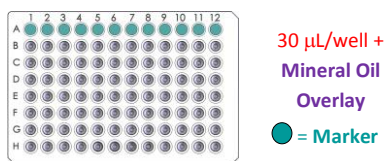
- Place a fresh **1X Inlet Buffer** Tray on Fragment Analyzer.

Replace Capillary Storage Solution every 2-4 weeks
1.1 mL/well



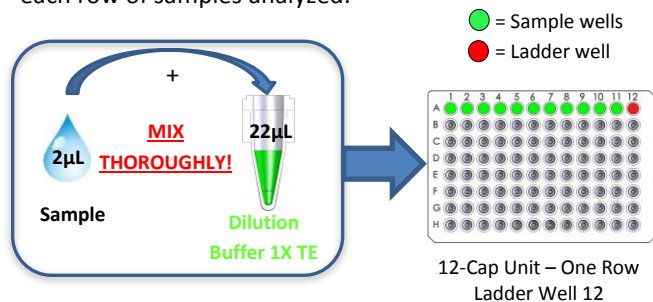
12-Cap Unit Fill Row A Only

- Place **Marker** plate in Marker Drawer location.



12-Cap Unit Fill Row A Only

- Mix **Samples** with **Dilution Buffer 1X TE** in Sample Plate. Place **24 µL of Ladder** ("ready to use"; no dilution) into **well 12** of each row of samples analyzed.



Software

- Select Tray and Row to run for 12-Cap.
- Enter Sample ID and Tray ID (optional).
- Select "Add to Queue", select the **DNF-930-(22, 33 or 55) - DNA 75-20000bp** method from the Dropdown menu.
- Enter Tray Name, Folder Prefix, and Notes (optional), Select **OK** to add Method to the Queue.
- Select to Start the Separation.

*Please refer to the Kit User Manual for additional details.

Reagents Required:

dsDNA Separation Gel, part # DNF-930

- Intercalating Dye, part # DNF-600-U030
- Capillary Storage Solution, part # GP-440-0100
- 5X 930 dsDNA Inlet Buffer, part # DNF-355 (Dilute to 1X)
- 5X Capillary Conditioning Solution, part # DNF-475 (Refill as needed)
- Dilution Buffer 1X TE, part # DNF-495
- 75 bp and 20,000 bp Markers, part # FS-SMK930
- 1,000 bp Plus DNA Ladder, part # FS-SLR930
- Mineral Oil, part # FS-SMO15

*Note: Color codes of Guide may not correlate with color codes of actual reagent component.

Gel Guide:

For 12-capillary *Fragment Analyzer™* systems:

# of samples to be analyzed	Volume of Intercalating dye	Volume of Gel
12	1.0 µL	10 mL ¹
24	1.5 µL	15 mL
36	2.0 µL	20 mL
48	2.5 µL	25 mL
96	4.5 µL	45 mL

¹A 5 mL minimum volume should be initially added to the tube.

Specifications:

Specifications	Description
DNA Sizing Range	75 bp - 20,000 bp (defined by Markers)
Separation Resolution	75 bp - 1,500 bp ≤ 10%; 1,500 bp - 20,000 bp ≤ 15%
DNA Sizing Accuracy ¹	± 10% or better
DNA Sizing Precision ¹	5% CV
DNA Fragment Concentration Range ¹	0.5 ng/µL – 50 ng/µL input DNA (adjustable by dilution of sample)

¹: Results using DNA Ladder or DNA Fragment standards initially prepared with 1X TE buffer