

Agilent CRISPR Discovery Gel Kit 5300 & 5400 Fragment Analyzer Systems 96-Capillary Arrays

Quick Guide

For Research Use Only.

Not for use in diagnostic procedures.

Kit Specifications	. 1
Kit Components	. 2
Analysis Protocol	. 2
Gel Preparation	. 2
Instrument and Sample Preparation	. 2
Fragment Analyzer Software Operating Procedure	. 4
Technical Support and Further Information	. 4

Kit Specifications

Specifications	Description	
DNA sizing range	100 bp - 6,000 bp	
Separation resolution	8 bp @ 500 bp (33-55 Array)	
DNA sizing precision ¹	2% CV	
DNA sizing accuracy ¹	± 5% or better	
DNA fragment concentration range	0.005 ng/μL – 2 ng/μL input DNA (adjustable by dilution of sample)	

 $^{^{\}rm 1}$ Results using DNA ladder or DNA fragment standards initially prepared with 1x TE Buffer

Kit Components

Agilent CRISPR Discovery Gel kit

Part Number	Name	
DNF-810	dsDNA 810 Gel	
DNF-600-U030	Intercalating Dye	
DNF-355	5x 930 dsDNA Inlet Buffer (Dilute to 1x)	
DNF-475	5x Capillary Conditioning Solution (Dilute to 1x)	
FA-MRK915F-0003	Markers, 1 bp & 6000 bp	
FS-SLR480-0001	MDK DNA Ladder	
DNF-494	Dilution Buffer 0.1x TE	
FS-SM015	Mineral Oil Dropper Bottle	
GP-440-0100	Capillary Storage Solution (sold separately)	

Analysis Protocol

Gel preparation

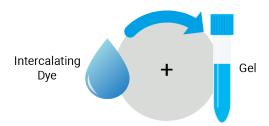
Prepare gel/dye mixture for 5300 (96-Capillary) & 5400 Fragment Analyzer systems:

# of samples to be analyzed1	Volume of Intercalating Dye	Volume of gel
96	4.0 µL	40 mL
192	8.0 µL	80 mL
288	12.0 μL	120 mL
384	16.0 µL	160 mL
480	20.0 μL	200 mL

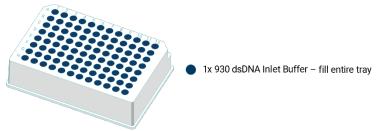
¹ Typically one sample well per separation is dedicated to the ladder.

Instrument and sample preparation

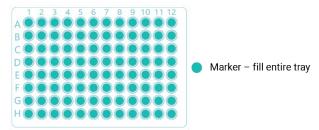
Mix fresh gel and dye. Refill 1x Capillary Conditioning Solution as needed.
 1.0 μL dye / 10 mL gel



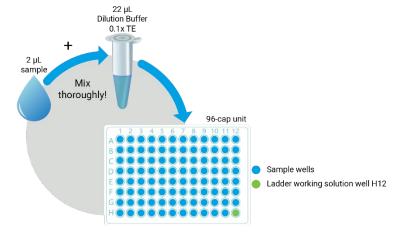
2 Place a fresh 1x 930 dsDNA Inlet Buffer tray on the Fragment Analyzer system. Fill entire tray (1.0 mL/well). Replace 1x 930 dsDNA Inlet Buffer daily.



- 3 Place Capillary Storage Solution in sample tray 3. Fill 100 μ L/well. Replace Capillary Storage Solution every 2-4 weeks.
- 4 Place marker plate in marker drawer location. Fill entire tray (30 μL/well + mineral oil overlay).



5 Mix samples with Diluent Buffer 0.1x TE in sample plate. Place 24 μ L of MDK DNA Ladder ("ready to use"; no dilution) into well H12.



WARNING

Working with Chemicals

The handling of reagents and chemicals might hold health risks.

- Refer to product material safety datasheets for further chemical and biological safety information.
- Follow the appropriate safety procedures such as wearing goggles, safety gloves and protective clothing

Fragment Analyzer software operating procedure

- 1 Select **Tray** to run for 96-Cap.
- 2 Enter Sample ID and Tray ID (optional).
- 3 Select Add to Queue, select the CRP-910-(33 or 55) CRISPR Discovery method from the dropdown menu.
- 4 Enter Tray Name, Folder Prefix, and Notes (optional).
- **5** Select **OK** to add method to the queue.
- **6** Select **▶** to start the separation.

NOTE

Please refer to the Kit Guide for additional details.

Technical Support and Further Information

For technical support, please visit www.agilent.com.

It offers useful information, support and current developments about the products and technology.

www.agilent.com

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