Analysis Kits

Fragment Analyzer™ Automated CE System
Quantitative Kits

The kits below are for sizing and quantitative analysis of DNA or RNA samples, using internal standards for accurate quantification.

DNA/NGS Fragment Analysis

- **Standard Sensitivity NGS Fragment Analysis Kit (1 bp - 6,000 bp), DNF-473**
  - Sizing Range: 100 bp - 6,000 bp
  - Input Concentration Range: 5 ng/µL - 100 ng/µL

- **High Sensitivity NGS Fragment Analysis Kit (1 bp - 6,000 bp), DNF-474**
  - Sizing Range: 100 bp - 6,000 bp
  - Input Concentration Range: 50 pg/µL - 5,000 pg/µL

- **High Sensitivity Small Fragment Analysis Kit, (1 bp - 1,500), DNF-477**
  - Sizing Range: 50 bp - 1,500 bp
  - Input Concentration Range: 50 pg/µL - 5,000 pg/µL

Large Fragment Analysis

- **High Sensitivity Large Fragment 50 Kb Analysis Kit, DNF-464**
  - Sizing Range: 75 bp - 48,500 bp
  - Input Concentration Range: 50 pg/µL - 5,000 pg/µL
  - 500 Sample Kit Only

- **Standard Sensitivity Large Fragment Analysis Kit, DNF-492**
  - Sizing Range: 50 bp - 20,000 bp
  - Input Concentration Range: 5 ng/µL - 100 ng/µL

- **High Sensitivity Large Fragment Analysis Kit, DNF-493**
  - Sizing Range: 50 bp - 20,000 bp
  - Input Concentration Range: 50 pg/µL - 5,000 pg/µL

Genomic DNA Analysis

- **Genomic DNA 50 Kb Analysis Kit, DNF-467**
  - Sizing Range: 75 bp - 60,000 bp
  - Input Concentration Range: 25 ng/µL - 250 ng/µL
  - 500 Sample Kit Only

- **High Sensitivity Genomic DNA Analysis Kit, DNF-488**
  - Sizing Range: 50 bp - 40,000 bp
  - Input Concentration Range: 50 pg/µL - 5,000 pg/µL
RNA Analysis

**Small RNA Analysis Kit, DNF-470**
- For Small and microRNA analysis
- Sizing range: 15 nt - 200 nt
- Input Concentration Range: 50 pg/µL - 2,500 pg/µL
- 275 Sample Kit Only, Optimized for 12 cap array

**Standard Sensitivity RNA Analysis Kit, (15 nt), DNF-471**
- For Total RNA analysis
- Sizing range: 200 nt - 6,000 nt
- Input Concentration Range: 5 ng/µL - 500 ng/µL

**High Sensitivity RNA Analysis Kit, (15 nt), DNF-472**
- For Total RNA or mRNA analysis
- Sizing range: 200 nt - 6,000 nt
- Total RNA Input Concentration Range: 50 pg/µL - 5,000 pg/µL
- mRNA Input Concentration Range: 250 pg/µL - 5,000 pg/µL

Qualitative Kits

The kits below are for sizing and qualitative analysis, using a double injection of sizing markers and sample. Appropriate for genotyping, analysis of SSR’s/microsatellites, and PCR fragments.

**dsDNA 905 Reagent Kit, 1 bp - 500 bp, DNF-905**
- Sizing Range: 35 bp - 500 bp, uses DNF-905 gel
- Input Concentration Range: 0.5 ng/µL - 50 ng/µL (can be adjusted by dilution of sample)

**dsDNA 910 Reagent Kit, 35 bp - 1,500 bp, DNF-910**
- Sizing Range: 35 bp - 1,500 bp, uses DNF-810 gel
- Input Concentration Range: 0.5 ng/µL - 50 ng/µL (can be adjusted by dilution of sample)

**dsDNA 915 Reagent Kit, 35 bp - 5,000 bp, DNF-915**
- Sizing Range: 35 bp - 5,000 bp, uses DNF-810 gel
- Input Concentration Range: 0.5 ng/µL - 50 ng/µL (can be adjusted by dilution of sample)

**dsDNA 930 Reagent Kit, 75 bp - 20,000 bp, DNF-930**
- Sizing Range: 75 bp - 20,000 bp, uses DNF-930 gel
- Input Concentration Range: 0.5 ng/µL - 50 ng/µL (can be adjusted by dilution of sample)

**dsDNA 935 Reagent Kit, 1 bp - 1,500 bp, DNF-935**
- Sizing Range: 100 bp - 1,500 bp, uses DNF-930 gel
- Input Concentration Range: 0.5 ng/µL - 50 ng/µL (can be adjusted by dilution of sample)
- For fast separations of fragments in under 20 minutes

**Plasmid DNA Analysis Kit, DNF-940**
- Sizing Range: 2,000 bp - 10,000 bp
- Input Concentration Range: 0.1 ng/µL - 1.0 ng/µL (can be adjusted by dilution of sample)
CRISPR Mutation Kits

The kits below are optimized for detection of CRISPR/Cas9 gene editing events post-heteroduplexed amplicon cleavage. The Gel Kit is available in a 1,000 sample kit only.

**CRISPR Discovery Gel Kit, 1 bp - 6,000 bp, DNF-910-K1000CP**
- Markers at 1 bp and 6,000 bp; fast running lower marker eliminates problems with primer dimers
- Input Concentration Range: 5 ng/µL - 100 ng/µL
- Gel formulation suited for a wide range of fragments

**AccuCleave T7CE Kit, DNF-440-1000CP**
- Optimized heteroduplex cleavage assay using T7 Endonuclease I
- Use with the CRISPR Gel Discovery Kit

**AccuCleave Control DNA, Kit DNF-443-002CP**
- Contains two DNA controls for use with the AccuCleave T7CE Kit
- 20 control reactions

**TILLiNG / Mutation Discovery Kits**

The kits below are used to detect point and other small mutations post-heteroduplexed amplicon cleavage using a double injection of sizing markers and sample. The Gel Kits are only available in 1,000 sample kits.

**Mutation Discovery 910 Gel Kits, 35 bp - 5,000 bp, DNF-910-K1000T**
- Sizing Range: 35 bp - 5,000 bp (defined by lower/upper marker)
- Input Concentration Range: 5 ng/µL - 100 ng/µL
- Gel formulation best suited for fragments under 1,000 bp

**Mutation Discovery 920 Gel Kit, 35 bp - 5,000 bp, DNF-920-K1000T**
- Sizing Range: 35 bp - 5,000 bp (defined by lower/upper marker)
- Input Concentration Range: 5 ng/µL - 100 ng/µL
- Gel formulation provides enhanced resolution from 1,000 bp to 3,000 bp

**dsDNA Cleavage Kit, DNF-480-3000**
- Buffer and enzyme to cleave heteroduplex DNA
- Kit contains enough materials to process 3,000 samples
- Use with DNF-910-K1000T and DNF-920-K1000T