

## Quick Start Standard Quantitative Cartridge Kit

### A. Specifications

Specifications	Description
Sample Volume Requirement	≥ 2 μl
DNA Sizing Range	20-1500 bp
DNA Sizing Precision*	2% CV
DNA Fragment Concentration Range	**0.2 ng/ μl to 50 ng/ μl
DNA Quantification Precision	10% CV

\* Determined by the DNA ladder (15-622 DNA Size Marker, C109200) as sample

\*\* Best Quantification Range: 0.5-2 ng/μl

### B. Kit Components and storage conditions

Contents	Storage Condition
Standard Cartridges (S2)	≥4°C
Quantitative Marker (20bp&1500bp, C109109-500AQ)	-20°C
Size Marker (15-622bp, C109200-100)	-20°C
1x Separation Buffer	*RT
1x Dilution Buffer	*RT
Mineral Oil	*RT

\*\* RT: Room Temperature 30 °C ≥

### C. Sample Preparation

- Mix Quantitative Marker (C109109-500Q) and Size Marker (C109200).

Materials	Volume (μl)
Quantitative Marker (C109109-500Q)	5 μl
Size Marker (15-622bp) (C109200)	10 μl
1x Dilution buffer (C104402)	5 μl
Total	20 μl

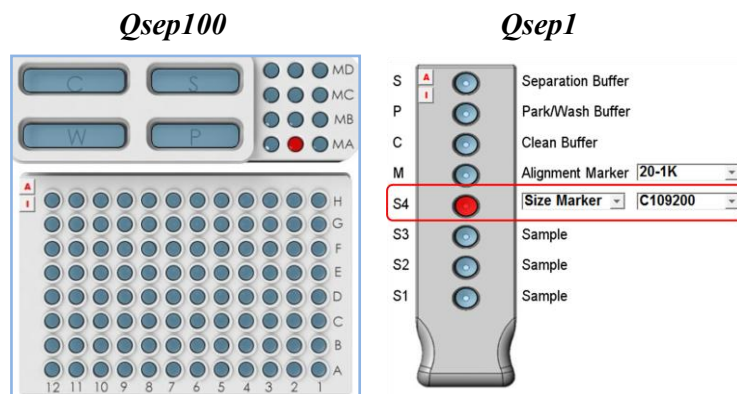
**NOTE: Size Marker mixture should be loaded at regular 0.2ml PCR tube.**

- Mix Quantification Marker (C109109-500Q) and Samples.

Materials	Volume (μl)
Quantitative Marker (C109109-500Q)	5 μl
Sample (0.2 ng/ μl to 500 ng/ μl)	X (2~15) μl
1x Dilution buffer (C104402)	15-X (0~13) μl
Total	20 μl

**NOTE: Avoid DNA input samples concentration over than specified limits.**

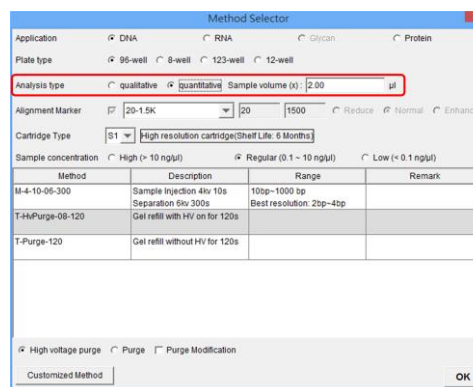
- Place size marker mixture at SM/ MA2/ S4 position.



**NOTE: Mix all mixtures slightly and spin down before analysis.**

### D. Software Operation

- Place sample and select corresponding position.
- Enter Sample information (optional).
- Select "Quantification" and enter sample volume (X) at Method Selector.



- Select analytic method "M4-10-06-300" or "M4-10-08-160" in Method Selector.
- Click Run to start analysis.

