**CAPILLARY ELECTROPHORESIS (BECKMAN COULTER – P/Ace MDQ)**

**Capillary electrophoresis (CE) is used to separate ionic species by their charge and frictional forces and hydrodynamic radius.**

**Capillary Electrophoresis (CE) technology is employed in a series of related separation techniques that use narrow-bore fused-silica capillaries to separate a complex array of large and small molecules.**

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**SPECIFICATIONS:**

1. Sample Introduction : Pressure, Vacuum, Electro kinetic
2. Voltage Range : 1-30 kV
3. Current Range : 3 - 300µA
4. Pressure Range : -5 to 100 psig
5. Sample temperature : 5°C to 60°C

**SYSTEM SPECIFICATIONS:**

**Modes of Operation:** Constant/Gradient Voltage

Constant/Gradient Current

Constant/Gradient Power

Variable pressure

**Sample Introduction:** Pressure, Vacuum, Electrokinetic

**Voltage Range:** 1 - 30 kV (1 - 10 kV for injections),

Programmable in 0.1 kV increments

Reversible voltage programmed through user interface.

**Current Range:** 3 - 300μ Amps

**Pressure Range:** -5 to +100 psig (Rinse/Separations)

-5 to +25 psig (Sample Introduction)

**Sample Temperature:** 5° C to 60° C

**Environment:** (When ambient is defined as 25° C.)

Sample temperature environment is independent of the ambient buffer environment.

**SYSTEM CAPACITY:**

**Sample Tray:** 2 x 96-well plates

2 x 48 2 mL vials

2 x 48 0.5 mL vials

2 x 48 PCR vials

**Buffer Tray:** 2 x 36 2 mL vials

4 x 25 mL trays

**Capillary Cartridge:**Recirculating liquid coolant 15° to 60° C

**Temperature:** (When ambient is defined as 25° C.)

**Wavelength Range:**Diode Array 190 - 600 nm

UV/Vis 200, 214, 254, 280 nm standard filter190 - 600 nm (with custom filter options)

**Detectors:** Diode Array UV/Vis Laser-Induced Fluorescence

**Scan Collection:**Diode Array 0.5 - 32 Hz (user selected)

**Data Rate Collection:** 0.5 to 32 Hz

**ACCESSORIES:**

1. Capillary Electrophoresis System
2. Laser Source
3. D2 Lamps