

Claims

[Claim 1]

A capillary array unit comprising:
a capillary; and
a support that supports the capillary,
wherein the capillary array unit includes a straightening plate,
wherein the straightening plate has a flat plate-like shape,
wherein the support includes a first support section that holds the capillary in a curved state and a second support section that holds the capillary in a linear state,
wherein the first support section includes a guide for moving the second support section in a predetermined direction,
wherein the straightening plate is arranged below a line on which the second support section moves, and
wherein the straightening plate is not arranged on the line on which the second support section moves.

[Claim 2]

The capillary array unit according to claim 1,
wherein the straightening plate is provided to a portion of a periphery of the capillary.

[Claim 3]

The capillary array unit according to claim 1,
wherein the straightening plate is arranged in a position not contacting the capillary.

[Claim 4]

The capillary array unit according to claim 1,
wherein the first support includes a holding section that holds the second support section in a detachable manner.

[Claim 5]

The capillary array unit according to claim 4,
wherein the straightening plate does not contact the capillary
when the first support is held by the holding section.

[Claim 6]

The capillary array unit according to claim 1,
wherein the first support includes a finger hook, and
wherein the second support includes a pressing section.

[Claim 7]

The capillary array unit according to claim 1,
wherein the second support includes a knob.

[Claim 8]

The capillary array unit according to claim 1,
wherein one end of the capillary includes a capillary head
provided with a bore or a groove in a portion thereof, and
wherein the second support includes a protrusion that engages
with the bore or the groove.

[Claim 9]

The capillary array unit according to claim 1,
wherein there is a radiator between the second support and the
capillary.

[Claim 10]

The capillary array unit according to claim 1, comprising:
a fixture for arranging the capillary on the second support,
wherein a groove for holding the capillary is provided in the
fixture or in a position on the second support where the fixture is
arranged.

[Claim 11]

The capillary array unit according to claim 1,
wherein there is a gap between the straightening plate and the
load header.

[Claim 12]

An electrophoresis device comprising:

a capillary array unit including a capillary and a support that supports the capillary;

a liquid delivery mechanism having one end of the capillary being connected thereto and for delivering a separation medium to the capillary;

a detection unit that emits light to a portion of the capillary and performs a measurement on a sample in the capillary; and

a thermostat that houses the capillary therein and performs temperature control on the capillary,

wherein the thermostat includes a heat source and a fan that sends air into the thermostat,

wherein the thermostat or the capillary array unit includes a straightening plate for adjusting a direction of wind made by the fan,

wherein the support includes a first support section that holds the capillary in a curved state and a second support section that holds the capillary in a linear state,

wherein the thermostat includes a heat dissipation sheet in at least a portion of a position where the capillary contacts, and

wherein a portion of the second support section is wider in width than a contact position of the thermostat that includes the heat dissipation sheet.

[Claim 13]

The electrophoresis device according to claim 12,

wherein the straightening plate is provided to a portion of a periphery of the capillary.

[Claim 14]

The electrophoresis device according to claim 12,

wherein the straightening plate branches the rotational flow of air caused in the thermostat by the fan.

[Claim 15]

The electrophoresis device according to claim 12,
wherein a connection position of the capillary to the liquid
delivery mechanism and a detection position of the capillary by means
of the detection unit are arranged in a straight line, and
wherein the straightening plate is arranged below the straight
line.