

CLAIMS

[Claim 1]

An electrophoresis device comprising:

a capillary filled with a phoresis medium;

a buffer container accommodating a buffer solution;

a storage portion storing a sample container
accommodating a sample;

a sample autosampler transporting the sample
container;

a buffer autosampler transporting the buffer
container; and

a computer configured to control driving of the
autosampler,

wherein the computer is configured to:

control driving of the sample autosampler to transport
the sample container between the storage portion, a standby
position, and a capillary position, and to control driving
of the buffer autosampler to transport the buffer container
between the capillary position and the standby position,

control the autosampler to, while the buffer container
is disposed at the capillary position where one end portion
of the capillary is positioned, transport the sample
container from the storage portion to the standby position
near the capillary position, and

control the autosampler and buffer autosampler to, when the buffer container has been transported from the capillary position to the standby position, transport the sample container from the standby position to the capillary position.

[Claim 2]

The electrophoresis device according to Claim 1, wherein the computer is configured to :

control the sampler autosampler to start the transport of the sample container after the capillary is filled with the phoresis medium, and

control the sampler autosampler to withdraw the sample container from the capillary position after the sample container is transported to the capillary position and the sample is injected into the capillary and before electrophoresis is started.

[Claim 3]

The electrophoresis device according to Claim 1, wherein the sample autosampler is driven within a first region of movement and the buffer autosampler is driven within a second region of movement, which is different than the first region of movement except for the capillary position where the first region of movement and the second

region of movement overlap.

[Claim 4]

The electrophoresis device according to Claim 1, wherein the control unit locks the storage portion when the sample autosampler is not at a predetermined position and unlocks the storage portion when the autosampler is at the predetermined position.

[Claim 5]

The electrophoresis device according to Claim 1, further comprising a barcode reader ,

wherein information on the sample is marked on the sample container, and

wherein the computer is configured to drive the sample autosampler to transport the sample container from the storage portion to a reading position of the barcode reader.

[Claim 6]

The electrophoresis device according to Claim 5,

wherein the storage portion has a sensor detecting presence or absence of the sample container, and

wherein when the sensor detects that the sample container has been disposed, the computer is configured to drive the sample autosampler to transport the sample

container from the storage portion to the reading position, and read the information on the sample based on a read signal of the barcode reader.

[Claim 7]

The electrophoresis device according to Claim 6, wherein the storage portion includes a plurality of storage positions,

wherein the sensor is provided at each of the plurality of storage positions, and

wherein the computer is configured to drive the sample autosampler to transport the sample container to the reading position from the storage position where the sensor has detected that the sample container has been disposed.

[Claim 8]

The electrophoresis device according to Claim 1, wherein the computer is configured to simultaneously drive the sample autosampler and the buffer autosampler at a predetermined timing.

[Claim 9]

An electrophoresis device comprising:

a capillary filled with a phoresis medium;

a buffer container accommodating a buffer;

a storage portion storing a sample container
accommodating a sample;

a sample autosampler transporting the sample
container;

a buffer autosampler transporting the buffer
container;

a barcode reader configured to read information on
the sample marked on the sample container; and

a computer configured to control the sample
autosampler and buffer autosampler,

wherein the computer is configured to: drive the
sample autosampler to transport the sample container
from the storage portion to a reading position of the
barcode reader;

drive the buffer autosampler to transport the buffer
container between the capillary position where one end
portion of the capillary is positioned and the standby
position near the capillary position, and

drive the sample autosampler to transport the sample
container between the storage portion, the standby
position, and the capillary position.

[Claim 10]

The electrophoresis device according to Claim 9,
wherein the storage portion has a sensor detecting

presence or absence of the sample container, and

wherein the computer is configured to, when the sensor detects that the sample container has been disposed, drive the sample autosampler to transport the sample container from the storage portion to the reading position, and read the information on the sample based on a read signal of the barcode reader.

[Claim 11]

The electrophoresis device according to Claim 10,
wherein the storage portion includes a plurality of storage positions,

wherein the sensor is provided at each of the plurality of storage positions, and

wherein the computer is configured to drive the sample autosampler to transport the sample container to the reading position from a storage position, among the plurality of storage positions, where the sensor has detected that the sample container has been disposed.

[Claim 12]

The electrophoresis device according to Claim 11,
further comprising a buffer autosampler configured to transport a buffer container accommodating a buffer.