[CLAIMS]

1. A PCR method comprising:

preparing a PCR reaction vessel including:

a substrate;

a channel formed on the substrate;

a pair of filters provided at respective ends of the channel;

a pair of air communication ports that communicate with the channel through the respective filters;

a thermal cycle region formed between the pair of filters in the channel;

a branch point formed between the pair of filters in the channel;

a branched channel whose one end is connected to the branch point; and

a sample introduction port formed at the other end of the branched channel;

introducing a sample into the PCR reaction vessel via the sample introduction port;

setting the PCR reaction vessel in a PCR device provided with a pump;

connecting a nozzle of the pump to the air communication ports; and

moving a sample in the thermal cycle region by controlling the pressure inside the channel by the pump, while a sample not subjected to PCR stays in the branched channel.

2. A PCR method comprising:

preparing a PCR reaction vessel including:

a substrate;

a channel formed on the substrate;

a pair of filters provided at respective ends of the channel;

a pair of air communication ports that communicate with the channel through the respective filters;

a thermal cycle region formed between the pair of filters in the channel;

a first branch point formed between the pair of filters in the channel;

a first branched channel whose one end is connected to the first branch point;

a first sample introduction port formed at the other end of the first branched channel;

a second branch point formed between the pair of filters in the channel;

a second branched channel whose one end is connected to the second branch point; and

a second sample introduction port formed at the other end of the second branched channel;

introducing a sample into the PCR reaction vessel via the first sample introduction port and the second sample introduction port;

setting the PCR reaction vessel in a PCR device provided

with a pump;

connecting a nozzle of the pump to the air communication ports; and

moving a sample in the thermal cycle region by controlling the pressure inside the channel by the pump, while a sample not subjected to PCR stays in the first branched channel and the second branched channel.

3. The PCR method according to claim 2,

wherein the PCR reaction vessel further includes a buffer channel region formed between the first branch point and the second branch point in the channel, further comprising:

dispensing a sample using the buffer channel region.