motive force associated with the container is used to move a majority of the two separate samples from the pathways into the containers, wherein each of the sample collection pathways is coupled to a tubular structure that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and sample collection pathways causes the moveable base to be displaced by the tubular structure and increase an interior volume of said one of the sample containers and thus provide the motive force.

[0003b] According to an aspect of the present invention, there is provided a device for collecting a bodily fluid sample, the device comprising: a first portion comprising at least one fluid collection location leading to at least two sample collection pathways configured to draw the fluid sample therein via a first type of motive force; a second portion comprising a plurality of sample containers for receiving the bodily fluid sample collected in the sample collection pathways, the sample containers operably engagable to be in fluid communication with the sample collection pathways, wherein a second motive force different from the first motive force to move a majority of the bodily fluid sample from the pathways into the containers; wherein at least one of the sample collection pathways comprises a fill indicator to indicate when a minimum fill level has been reached and that at least one of the sample containers can be engaged to be in fluid communication with at least one of the sample collection pathways, wherein each of the sample collection pathways is coupled to a tubular structure that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and sample collection pathways causes the moveable base to be displaced by the tubular structure and increase an interior volume of said one of the sample containers and thus provide the second motive force.

[0003c] According to an aspect of the present invention, there is provided a sample collection device, comprising: a collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid sample via capillary action from the first opening towards the second opening; and a sample container for receiving the bodily fluid sample, the container being engagable with the collection channel and having a cap configured to receive a channel; wherein the second opening is defined by a portion the collection channel configured to penetrate the cap of the sample container, and to provide a fluid flow path between the collection channel and the sample container, and the sample container has an interior volume no greater than ten times larger than the interior volume of the collection channel, wherein the collection channel is coupled to a tubular structure that engages a movable base comprising a plunger in the sample container, wherein relative motion between the sample container and the collection channel causes the moveable base to be displaced by the tubular structure and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

[0003d] According to an aspect of the present invention, there is provided a sample collection device, comprising: a collection channel comprising a first opening and a second opening, and being

configured to draw a bodily fluid sample via capillary action from the first opening towards the second opening; a sample container for receiving the bodily fluid sample, the container being engageable with the collection channel and having a cap configured to receive a channel; and an adaptor channel configured to provide a fluid flow path between the collection channel and the sample container, having a first opening and a second opening, the first opening being configured to contact the second opening of the collection channel, the second opening being configured to penetrate the cap of the sample container, wherein relative motion between the sample container and the collection channel causes a moveable base comprising a plunger in the sample container to be displaced by the adaptor channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

[0003e] According to an aspect of the present invention, there is provided a sample collection device, comprising: a body, containing a collection channel , the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening; a base, containing a sample container for receiving the bodily fluid sample, the sample container being engageable with the collection channel and having a cap configured to receive a channel; and a support, wherein, the body and the base are connected to opposite ends of the support, and are configured to be movable relative to each other, such that sample collection device is configured to have an extended state and a compressed state, wherein at least a portion of the base is closer to the body in the extended state of the device than in the compressed state, the second opening of the collection channel is configured to penetrate the cap of the sample container, in the extended state of the device, the second opening of the collection channel is not in contact with the interior of the sample container, and in the compressed state of the device, the second opening of the collection channel extends into the interior of the sample container through the cap of the container, thereby providing fluidic communication between the collection channel and the sample container, wherein moving the device from the extended state to the compressed state causes a moveable base comprising a plunger in the sample container to be displaced by the collection channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

[0003f] According to an aspect of the present invention, there is provided a sample collection device, comprising: a body, containing a collection channel , the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening; a base, containing a sample container for receiving the bodily fluid sample, the sample container being engageable with the collection channel and having a cap configured to receive a channel; a support, and an adaptor channel, having a first opening and a second opening, the first opening being configured to contact the second opening of the collection channel, and the second opening being configured to

penetrate the cap of the sample container, wherein, the body and the base are connected to opposite ends of the support, and are configured to be movable relative to each other, such that sample collection device is configured to have an extended state and a compressed state, wherein at least a portion of the base is closer to the body in the extended state of the device than in the compressed state, in the extended state of the device, the adaptor channel is not in contact with one or both of the collection channel and the interior of the sample container, and in the compressed state of the device, the first opening of the adaptor channel is in contact with the second opening of the collection channel, and the second opening of the adaptor channel extends into the interior of the sample container through the cap of the container, thereby providing fluidic communication between the collection channel and the sample container, wherein moving the device from the extended state to the compressed state causes a moveable base in the sample container to be displaced by the adaptor channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

[0003g] According to an aspect of the present invention, there is provided a device for collecting a fluid sample from a subject, comprising: a body containing a collection channel, the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening; a base, engageable with the body, wherein the base supports a sample container, the container being engageable with the collection channel and having a cap configured to receive a channel; wherein the second opening of the collection channel is configured to penetrate the cap of the sample container, and to provide a fluid flow path between the collection channel and the sample container, wherein relative motion between the sample container and the body causes a moveable base comprising a plunger in the sample container to be displaced by the collection channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

[0003h] According to an aspect of the present invention, there is provided a device for collecting a fluid sample from a subject, comprising: a body containing a collection channel, the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening; a base, engagable with the body, wherein the base supports a sample container, the sample container being engageable with the collection channel and having a cap configured to receive a channel; and an adaptor channel, having a first opening and a second opening, the first opening being configured to contact the second opening of the collection channel, and the second opening being configured to penetrate the cap of the sample container, wherein relative motion between the sample container and the body causes a moveable base comprising a plunger in the sample container to be

force different from the first motive force to move bodily fluid sample from the channels into the containers, wherein each of the sample collection channels is coupled to a needle that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and the first portion causes the moveable base to be displaced by the needle and increase an interior volume of said one of the sample containers and thus provide the second motive force.

[0006a] According to an aspect of the present invention, there is provided a method comprising: contacting one end of a sample collection device to a bodily fluid sample to split the sample into at least two portions by drawing the sample into at least two collection channels of the sample collection device by way of a first type of motive force; establishing fluid communication between the sample collection channels and the sample containers after a desired amount of sample fluid has been confirmed to be in at least one of the collection channels, whereupon the containers provide a second motive force different from the first motive force to move each of the portions of bodily fluid sample into their respective containers, wherein relative motion between the sample container and the sample collections channels causes a moveable base comprising a plunger in the sample container to be displaced by a needle coupled to the collection channel and increase an interior volume of said sample container and thus provide the second motive force to draw sample into the sample container.

[0006b] According to an aspect of the present invention, there is provided a method of collecting a bodily fluid sample, comprising: contacting a bodily fluid sample with a device comprising a collection channel, the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening, such that the bodily fluid sample fills the collection channel from the first opening through the second opening; establishing a fluid flow path between the collection channel and the interior of a sample container , said sample container having an interior volume no greater than ten times larger than the interior volume of the collection channel , wherein relative motion between the sample container and the sample collections channel causes a moveable base comprising a plunger in the sample container to be displaced by a needle coupled to the collection channel and increase an interior volume of said sample container and thus provide the second motive force to draw sample into the sample container.

[0006c] According to an aspect of the present invention, there is provided a method of collecting a bodily fluid sample, comprising: contacting a bodily fluid sample with a device according to aspects of the present invention, such that the bodily fluid sample fills the collection channel from the first opening through the second opening of at least one of the collection channel(s)

in the device; and establishing a fluid flow path between the collection channel and the interior of the sample container, such that establishing a fluid flow path between the collection channel and the interior of the sample container generates a negative pressure at the second opening of the collection channel, and the fluidic sample is transferred from the collection channel to the interior of the sample container.

[0007] According to an aspect of the present invention, a method is provided comprising metering a minimum amount of sample into at least two channels by using a sample collection device with at least two of the sample collection channels configured to simultaneously draw the fluid sample into each of the at least two sample collection channels via a first type of motive force. After a desired amount of sample fluid has been confirmed to be in the collection channels, fluid communication is established between the sample collection channels and the sample containers, whereupon the containers provide a second motive force different from the first motive force use to collect the samples to move bodily fluid sample from the channels into the containers, wherein relative motion between the sample container and the sample collections channels causes a moveable base comprising a plunger in the sample container to be displaced by a needle coupled to the collection channel and increase an interior volume of said sample container and thus provide the second motive force to draw sample into the sample container.

[0007a] As disclosed, devices that use only a single channel to collect the body fluid or devices that have a plurality of channels but do not collect them simultaneously are not excluded. Optionally, the collection of sample fluid is performed without the use of a wicking material.

[0008] As disclosed herein, there is a discrete amount of time between sample collection and introduction of the sample into a sample pre-processing device. In one non-limiting example, the process is a non-continuous process. The sample collection occurs in one processing station and then the sample is taken to a second station. This second station may be in the sample building. Optionally, the second station may be located at another location where the sample needs to be walked, driven, flown, conveyor-ed, placed in a transport device, or placed in a transport container to reach the second location. In this manner, there is a discrete break in the processing to allow for time associated with sample transport.

[0009] As disclosed herein, separator gel(s) can also be included in the sample containers such that the gels will separate cell-free fractions of whole blood from the cellular or other solid or semi-solid portions of the sample. Such a gel or other similar separator material may be included in the sample container prior to, during, or after sample has been introduced into the sample container. The separator material may have a density between that of the cells and solution components, so that the material separates the sample components by flowing to a position between the solution and non-solution sample layers during separation such as by centrifugation. Following centrifugation, the separator material stops flowing and remain as a soft barrier between the layers. In some

portion with the UV-curable material exposed to UV light for a period of time such as but not limited to 10 to 30 seconds to harden the material. Such hardening may involve cross-linking of material in the UV-curable material. Optionally, the UV curable material may be used in conjunction with traditional separator gel material such that only one side (the solution side or the solid side) is in contact with the UV cured material. Optionally, the UV cured material may be used with a third material such that the UV cured material is between two separator materials and is not in direct contact with the solution and non-solution portions of the sample.

[0009a] According to an aspect of the present invention, there is provided a method for collecting a bodily fluid sample from a subject, comprising: bringing a device comprising a first channel and a second channel into fluidic communication with a bodily fluid from the subject, each channel having an input opening configured for fluidic communication with said bodily fluid, each channel having an output opening downstream of the input opening of each channel, and each channel being configured to draw a bodily fluid via capillary action from the input opening towards the output opening; bringing, through the output opening of each of the first channel and the second channel, said first channel and said second channel into fluidic communication with a first container and a second container, respectively; and directing said bodily fluid within each of said first channel and second channel to each of said first container and second container with the aid of: relative motion between first container and the first channel causes a moveable base comprising a plunger in the first container to be displaced by a needle coupled to the first channel and increase an interior volume of said first container and thus provide a motive force to draw sample into the first container.

[0009b] As disclosed therein, there is provided a method of manufacturing a sample collection device comprising: forming one portion of a sample collection device having at least two channels configured to simultaneously draw the fluid sample into each of the at least two sample collection channels via a first type of motive force; forming sample containers, whereupon the containers are configured to be coupled to the sample collection device to the provide a second motive force different from the first motive force use to collect the samples to move bodily fluid sample from the channels into the containers.

[0009c] As disclosed herein, there is provided computer executable instructions for performing a method comprising: forming one portion of a

sample collection device having at least two channels configured to simultaneously draw the fluid sample into each of the at least two sample collection channels via a first type of motive force.

[0009d] As disclosed herein, there is provided computer executable instructions for performing a method comprising: forming sample containers, whereupon the containers are configured to be coupled to the sample collection device to the provide a second motive force different from the first motive force use to collect the samples to move bodily fluid sample from the channels into the containers.

[0009e] As disclosed herein, there is provided a device for collecting a bodily fluid sample from a subject, the device comprising: means for drawing the bodily fluid sample into the device from a single end of the device in contact with the subject, thereby separating the fluid sample into two separate samples; means for transferring the fluid sample into a plurality of sample containers, wherein the containers provide a motive force to move a majority of the two separate samples from the pathways into the containers.

[0009f] As disclosed herein, there is provided a device comprising a sample collection device.

[0009g] As disclosed herein, there is provided a device for collecting a sample from a subject.

[0009h] As disclosed herein, there is provided a device for collecting a capillary blood sample from a subject.

[0010] As disclosed herein, a device is provided for collecting a sample from a non-venous wound on a subject.

[0011] As disclosed herein, a method is provided for using a device for collecting a sample from a subject and outputting at least one aliquot into a first sample container.

[0012] As disclosed herein, a method is provided for using a device for collecting a sample from a subject and outputting at least one aliquot into a first sample container and at least a second aliquot into a second sample container.

[0013] According to an aspect of the present invention, a method is provided for using a device for collecting a sample from a subject and outputting at least one aliquot into a first sample container and at least a second aliquot into a second sample container, wherein the sample is obtained from a single point of contact with the subject, wherein relative motion between the first sample container and a first sample collection channel causes a moveable base comprising a plunger in the first sample container to be displaced by a needle coupled to the first collection channel and increase an interior volume of said first sample container and thus provide a motive force to draw one aliquot into the first sample container.

[0014] According to an aspect of the present invention, a method is provided for using a device for collecting a sample from a subject and outputting at least one aliquot into a first sample container and at least a second aliquot into a second sample container, wherein the sample is obtained from a single collection event wherein relative motion between the first sample container and a first sample collection channel causes a moveable base comprising a plunger in the first sample container to be displaced by a needle coupled to the first collection channel and increase an interior volume of said first sample container and thus provide a motive force to draw the first aliquot into the first sample container.

[0014a] As disclosed herein, there is provided a system comprising a processor programmed to determine at least a desired sample dilution for a sample and at least a desired number of aliquot(s).

[0015] This Summary is provided to introduce a selection of concepts in a simplified form that are further described below in the Detailed Description. This Summary is not intended to identify key features or essential features of the claimed subject matter, nor is it intended to be used to limit the scope of the claimed subject matter.

INCORPORATION BY REFERENCE

[0016] All publications, patents, and patent applications mentioned in this specification are herein incorporated by reference to the same extent as if each individual publication, patent, or patent application was specifically and individually indicated to be incorporated by reference. However, in the event of a conflict between the content of the present express disclosure and the

WHAT IS CLAIMED IS:

1. A device for collecting a bodily fluid sample, the device comprising:

a first portion comprising a plurality of sample collection channels, wherein at least two of the channels are configured to simultaneously draw the fluid sample into each of the at least two sample collection channels via a first type of motive force;

a second portion comprising a plurality of sample containers for receiving the bodily fluid sample collected in the sample collection channels, wherein the sample containers have a first condition where the sample containers are not in fluid communication with the sample collection channels, and a second condition where the sample containers are operably engagable to be in fluid communication with the collection channels, wherein a second motive force different from the first motive force to move bodily fluid sample from the channels into the containers, wherein each of the sample collection channels is coupled to a needle that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and the first portion causes the moveable base to be displaced by the needle and increase an interior volume of said one of the sample containers and thus provide the second motive force.

2. A device for collecting a bodily fluid sample from a subject, the device comprising:

at least two sample collection pathways configured to draw the bodily fluid sample into the device from a single end of the device in contact with the subject, thereby separating the fluid sample into two separate samples;

a second portion comprising a plurality of sample containers for receiving the bodily fluid sample collected in the sample collection pathways, the sample containers operably engagable to be in fluid communication with the sample collection pathways, wherein a motive force associated with the container is used to move a majority of the two separate samples from the pathways into the containers, wherein each of the sample collection pathways is coupled to a tubular structure that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and sample collection pathways causes the moveable base to be displaced by the tubular structure and increase an interior volume of said one of the sample containers and thus provide the motive force.

3. A device for collecting a bodily fluid sample, the device comprising:

containers can be engaged to be in fluid communication with at least one of the sample collection pathways, wherein each of the sample collection pathways is coupled to a tubular structure that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and sample collection pathways causes the moveable base to be displaced by the tubular structure and increase an interior volume of said one of the sample containers and thus provide the second motive force.

4. A device for collecting a bodily fluid sample, the device comprising:

a first portion comprising at least two sample collection channels configured to draw the fluid sample into the sample collection channels via a first type of motive force, wherein one of the sample collection channels has an interior coating designed to mix with the fluid sample and another of the sample collection channels has another interior coating chemically different from said interior coating;

a second portion comprising a plurality of sample containers for receiving the bodily fluid sample collected in the sample collection channels, the sample containers operably engagable to be in fluid communication with the collection channels, wherein a second motive force different from the first motive force to move a majority of the bodily fluid sample from the channels into the containers;

wherein containers are arranged such that mixing of the fluid sample between the containers does not occur, wherein each of the sample collection channels is coupled to a tubular structure that engages a movable base comprising a plunger in one of the sample containers, wherein relative motion between the sample containers and the first portion causes the moveable base to be displaced by the tubular structure and increase an interior volume of said one of the sample containers and thus provide the second motive force.

5. A sample collection device, comprising:

(a) a collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid sample via capillary action from the first opening towards the second opening; and

(b) a sample container for receiving the bodily fluid sample, the container being engagable with the collection channel and having a cap configured to receive a channel;

wherein the second opening is defined by a portion the collection channel configured to penetrate the cap of the sample container, and to provide a fluid flow path between the collection channel and the sample container, and

the sample container has an interior volume no greater than ten times larger than the interior volume of the collection channel, wherein the collection channel is coupled to a tubular structure that engages a movable base comprising a plunger in the sample container, wherein relative motion between the sample container and the collection channel causes the moveable base to be displaced by the tubular structure and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

6. A sample collection device, comprising:

(a) a collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid sample via capillary action from the first opening towards the second opening;

(b) a sample container for receiving the bodily fluid sample, the container being engageable with the collection channel and having a cap configured to receive a channel; and

(c) an adaptor channel configured to provide a fluid flow path between the collection channel and the sample container, having a first opening and a second opening, the first opening being configured to contact the second opening of the collection channel, the second opening being configured to penetrate the cap of the sample container, wherein relative motion between the sample container and the collection channel causes a moveable base comprising a plunger in the sample container to be displaced by the adaptor channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

7. A sample collection device, comprising:

(a) a body, containing a collection channel , the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening;

(b) a base, containing a sample container for receiving the bodily fluid sample, the sample container being engageable with the collection channel and having a cap configured to receive a channel; and

(c) a support,

wherein,

the body and the base are connected to opposite ends of the support, and are configured to be movable relative to each other, such that sample collection device is configured to have an extended state and a compressed state, wherein at least a portion of the base is closer to the body in the extended state of the device than in the compressed state,

the second opening of the collection channel is configured to penetrate the cap of the sample container,

in the extended state of the device, the second opening of the collection channel is not in contact with the interior of the sample container, and

in the compressed state of the device, the second opening of the collection channel extends into the interior of the sample container through the cap of the container, thereby providing fluidic communication between the collection channel and the sample container, wherein moving the device from the extended state to the compressed state causes a moveable base comprising a plunger in the sample container to be displaced by the collection channel and increase an

(b) a base, containing a sample container for receiving the bodily fluid sample, the sample container being engageable with the collection channel and having a cap configured to receive a channel;

(c) a support, and

(d) an adaptor channel, having a first opening and a second opening, the first opening being configured to contact the second opening of the collection channel, and the second opening being configured to penetrate the cap of the sample container,

wherein, the body and the base are connected to opposite ends of the support, and are configured to be movable relative to each other, such that sample collection device is configured to have an extended state and a compressed state, wherein at least a portion of the base is closer to the body in the extended state of the device than in the compressed state, in the extended state of the device, the adaptor channel is not in contact with one or both of the collection channel and the interior of the sample container, and in the compressed state of the device, the first opening of the adaptor channel is in contact with the second opening of the collection channel, and the second opening of the adaptor channel extends into the interior of the sample container through the cap of the container, thereby providing fluidic communication between the collection channel and the sample container, wherein moving the device from the extended state to the compressed state causes a moveable base comprising a plunger in the sample container to be displaced by the adaptor channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

9. A device for collecting a fluid sample from a subject, comprising:

(a) a body containing a collection channel, the collection channel comprising a first opening and a second opening, and being configured to draw a bodily fluid via capillary action from the first opening towards the second opening;

(b) a base, engageable with the body, wherein the base supports a sample container, the container being engageable with the collection channel and having a cap configured to receive a channel;

wherein

the second opening of the collection channel is configured to penetrate the cap of the sample container, and to provide a fluid flow path between the collection channel and the sample container, wherein relative motion between the sample container and the body causes a moveable base comprising a plunger in the sample container to be displaced by the collection channel and increase an

(b) a base, engagable with the body, wherein the base supports a sample container, the sample container being engageable with the collection channel and having a cap configured to receive a channel; and

(c) an adaptor channel, having a first opening and a second opening, the first opening being configured to contact the second opening of the collection channel, and the second opening being configured to penetrate the cap of the sample container, wherein relative motion between the sample container and the body causes a moveable base comprising a plunger in the sample container to be displaced by the adaptor channel and increase an interior volume of said sample container and thus provide a vacuum to draw sample into the sample container.

11. The device of claims 7-10, wherein the body comprises two collection channels.

12. The device of claims 1 and 4-11, wherein the interior of the collection channel(s) are coated with an anticoagulant.

13. The device of claim 10, wherein the body comprises a first collection channel and a second collection channel, and the interior of the first collection channel is coated with a different anticoagulant than the interior of the second collection channel.

14. The device of claim 13, wherein the first anticoagulant is ethylenediaminetetraacetic acid (EDTA) and the second anticoagulant is different from EDTA.

15. The device of claim 13, wherein the first anticoagulant is citrate and the second anticoagulant is different from citrate.

16. The device of claim 13, wherein the first anticoagulant is heparin and the second anticoagulant is different from heparin.

17. The device of claims 7-11 and 13-16, wherein the body is formed from an optically transmissive material.

18. The device of claims 1 and 4-17 wherein the device includes the same number of sample containers as collection channels.

19. The device of any one of claims 6 or 10, wherein the device includes the same number of adaptor channels as collection channels.

20. The device of claims 7-11 and 13-17, wherein the base contains an optical indicator that provides a visual indication of whether the sample has reached the sample container in the base.

21. The device of claim 16, wherein the base is a window that allows a user to see the container in the base.

22. The device of any one of claims 7-8, wherein the support comprises a spring, and spring exerts a force so that the device is at the extended state when the device is at its natural state.

23. The device of claims 1, 5-8, 10 and 15-22, wherein the second opening of the collection channel or the adaptor channel is capped by a sleeve, wherein said sleeve does not prevent movement of bodily fluid via capillary action from the first opening towards the second opening.

24. The device of claim 23, wherein the sleeve contains a vent.

25. The device of claims 1 and 4-24, wherein each collection channel can hold a volume of no greater than 500 uL.

26. The device of claims 1 and 4-25, wherein each collection channel can hold a volume of no greater than 200 uL.

27. The device of claims 1 and 4-26, wherein each collection channel can hold a volume of no greater than 100 uL.

28. The device of claims 1 and 4-27, wherein the internal perimeter of a cross-section of each collection channel is no greater than 16 mm.

29. The device of claims 1 and 4-28, wherein the internal perimeter of a cross-section of each collection channel is no greater than 8 mm.

30. The device of claims 1 and 4-29, wherein the internal perimeter of a cross-section of each collection channel is no greater than 4 mm.

31. The device of claims 28-30, wherein the internal perimeter is a circumference.

32. The device of claims 1-10, 12, 14-16, 19 and 21, wherein the device comprises a first and a second collection channel, and the opening of the first channel is adjacent to an opening of said second channel, and the openings are configured to draw blood simultaneously from a single drop of blood.

33. The device of claim 28, wherein the opening of the first channel and the opening of the second channel have a center-to-center spacing of less than or equal to about 5 mm.

34. The device of any of the foregoing claims, wherein each sample container has an interior volume no greater than twenty times larger than the interior volume of the collection channel with which it is engagable.

35. The device of claim 30, wherein each sample container has an interior volume no greater than ten times larger than the interior volume of the collection channel with which it is engagable.

36. The device of claim 31, wherein each sample container has an interior volume no greater than five times larger than the interior volume of the collection channel with which it is engagable.

37. The device of claim 32, wherein each sample container has an interior volume no greater than two times larger than the interior volume of the collection channel with which it is engagable.

38. The device of claims 1, 4-31, 33, 35 and 36, wherein establishment of fluidic communication between the collection channel and the sample container results in transfer of at least 90% of the bodily fluid sample in the collection channel into the sample container.

39. The device of claim 34, wherein establishment of fluidic communication between the collection channel and the sample container results in transfer of at least 95% of the bodily fluid sample in the collection channel into the sample container.

40. The device of claim 35, wherein establishment of fluidic communication between of the collection channel and the sample container results in transfer of at least 98% of the bodily fluid sample in the collection channel into the sample container.

41. The device of any one of the foregoing claims, wherein establishment of fluidic communication between the collection channel and the sample container results in transfer of the bodily fluid sample into the sample container and in no more than ten uL of bodily fluid sample remaining in the collection channel.

42. The device of claim 37, wherein establishment of fluidic communication between the collection channel and the sample container results in transfer of the bodily fluid sample into the sample container and in no more than five uL of bodily fluid sample remaining in the collection channel.

43. The device of claim 39, wherein engagement of the collection channel with the sample container results in transfer of the bodily fluid sample into the sample container and in no more than 2 uL of bodily fluid sample remaining in the collection channel.

44. A method comprising:

contacting one end of a sample collection device to a bodily fluid sample to split the sample into at least two portions by drawing the sample into at least two collection channels of the sample collection device by way of a first type of motive force;

establishing fluid communication between the sample collection channels and the sample containers after a desired amount of sample fluid has been confirmed to be in at least one of the collection channels, whereupon the containers provide a second motive force different from the first motive force to move each of the portions of bodily fluid sample into their respective containers, wherein relative motion between the sample container and the sample collections channels causes a moveable base comprising a plunger in the sample container to be displaced by a needle coupled to the collection channel and increase an interior volume of said sample container and thus provide the second motive force to draw sample into the sample container.

45. A method comprising:

metering a minimum amount of sample into at least two channels by using a sample collection device with at least two of the sample collection channels configured to simultaneously draw the fluid sample into each of the at least two sample collection channels via a first type of motive force;

after a desired amount of sample fluid has been confirmed to be in the collection channels, fluid communication is established between the sample collection channels and the sample containers, whereupon the containers provide a second motive force different from the first motive force use to collect the samples to move bodily fluid sample from the channels into the containers, wherein relative motion between the sample container and the sample collections channels causes a moveable base comprising a plunger in the sample container to be displaced by a needle coupled to the collection channel and increase an interior volume of said sample container and thus provide the second motive force to draw sample into the sample container.

(b) establishing a fluid flow path between the collection channel and the interior of a sample container , said sample container having an interior volume no greater than ten times larger than the interior volume of the collection channel , wherein relative motion between the sample container and the sample collections channel causes a moveable base comprising a plunger in the sample container to be displaced by a needle coupled to the collection channel and increase an interior volume of said sample container and thus provide the second motive force to draw sample into the sample container.

47. A method of collecting a bodily fluid sample, comprising:

(a) contacting a bodily fluid sample with a device of any one of claims 1-37, such that the bodily fluid sample fills the collection channel from the first opening through the second opening of at least one of the collection channel(s) in the device; and

(b) establishing a fluid flow path between the collection channel and the interior of the sample container , such that establishing a fluid flow path between the collection channel and the interior of the sample container generates a negative pressure at the second opening of the collection channel, and the fluidic sample is transferred from the collection channel to the interior of the sample container.

48. The method of any of claims 44-47, wherein the collection channel and the interior of the sample container are not brought into fluid communication until the bodily fluid reaches the second opening of the collection channel.

49. The method of any of claims 44-47, wherein the device comprises two collection channels, and the collection channels and the interior of the sample containers are not brought into fluidic communication until the bodily fluid reaches the second opening of both collection channels.

50. The method of any one of claims 44-47, wherein the second opening of the collection channel in the device is configured to penetrate the cap of the sample container, and wherein a fluidic flow path between the second opening of the collection channel and the sample container is established by providing relative movement between the second opening of the collection channel and the sample container, such that the second opening of the collection channel penetrates the cap of the sample container.

opening and a second opening, the first opening being configured to contact the second opening of the collection channel, and the second opening being configured to penetrate the cap of the sample container, and wherein a fluidic flow path between the collection channel and the sample container is established by providing relative movement between two or more of: (a) the second opening of the collection channel, (b) the adaptor channel, and (c) the sample container, such that the second opening of the adaptor channel penetrates the cap of the sample container.

52. A method for collecting a bodily fluid sample from a subject, comprising:

(a) bringing a device comprising a first channel and a second channel into fluidic communication with a bodily fluid from the subject, each channel having an input opening configured for fluidic communication with said bodily fluid, each channel having an output opening downstream of the input opening of each channel, and each channel being configured to draw a bodily fluid via capillary action from the input opening towards the output opening;

(b) bringing, through the output opening of each of the first channel and the second channel, said first channel and said second channel into fluidic communication with a first container and a second container, respectively; and

(c) directing said bodily fluid within each of said first channel and second channel to each of said first container and second container with the aid of:

relative motion between first container and the first channel causes a moveable base comprising a plunger in the first container to be displaced by a needle coupled to the first channel and increase an interior volume of said first container and thus provide a motive force to draw sample into the first container.

53. A method of using a device for collecting a sample from a subject and outputting at least one aliquot into a first sample container and at least a second aliquot into a second sample container, wherein the sample is obtained from a single point of contact with the subject, wherein relative motion between the first sample container and a first sample collection channel causes a moveable base comprising a plunger in the first sample container to be displaced by a needle coupled to the first collection channel and increase an interior volume of said first sample container and thus provide a motive force to draw one aliquot into the first sample container.

54. A method of using a device for collecting a sample from a subject and outputting at least one aliquot into a first sample container and at least a second aliquot into a second sample container, wherein the sample is obtained from a single collection event, wherein relative motion between the first sample container and a first sample collection channel causes a moveable base in the first sample container to be displaced by a needle coupled to the first collection channel and increase an interior volume of said first sample container and thus provide a motive force to draw the first aliquot into the first sample container.