What is claimed is:

1. A centrifugal filtration assembly, comprising:

a filtration device and at least one filtration device holder;

said filtration device comprising a sample reservoir, a pair of spaced membranes each supported by an underdrain support comprising a series of channels, grooves or surface textures to capture filtrate, a plurality of drain holes for draining said filtrate, and a retentate chamber, said filtration device having an external diameter;

said device holder comprising a housing having an open end and an internal diameter;

wherein said filtration device is insertable into said device holder in a spin mode whereby filtrate from said filtration device flows from said drain holes into said device holder housing, and in a reverse spin mode whereby retentate in said retentate chamber flows into said device holder housing, and wherein the extent of the inserting of said filtration device into said device holder is delimited by the relative lengths of said external diameter and internal diameter.

2. The centrifugal filtration assembly of claim 1, wherein each said membrane is oriented at an angle of greater than about 0° and less than about 5° from the vertical centerline of said filtration device.

3. The centrifugal filtration assembly of claim 1, wherein each said membrane is oriented at an angle of about 3° from the vertical centerline of said filtration device.

4. The centrifugal filtration assembly of claim 1, wherein said retentate chamber comprises a dead volume.

5. A method of filtering a sample, comprising:

providing a filtration device and first and second filtration device holders; said filtration device comprising a sample reservoir, a pair of spaced membranes each supported by an underdrain support comprising a series of channels, grooves or surface textures to capture filtrate, a plurality of drain holes for draining said filtrate into said vial, and a retentate chamber, said filtration device having an external diameter; each said device holder comprising a housing having an open end and a first internal diameter larger than said external diameter of said filtration device, said device holder having a shoulder within said housing spaced from said open end and defining a second internal diameter smaller than said external diameter of said filtration device;

introducing sample into said sample reservoir;

inserting said filtration device into said first device holder in an orientation wherein said drain holes are in fluid communication with said device holder housing;

applying centrifugal force to said sample to filter said sample and cause filtrate to flow from said drain holes into said first device holder housing and to accumulate retentate in said retentate chamber;

removing said filtration device from said first device holder;

insert said filtration device into said second device holder in an orientation wherein said retentate chamber is in fluid communication with said second device holder housing;

applying centrifugal force to said retentate in said retentate chamber to transfer said retentate into said second device holder housing; and

removing said filtration device from said second device holder.