Abstract

All-In-One Sample Preparation Device and Method

Sample preparation device that allows for a complete bind, wash, elute, buffer-exchange and concentration process to be carried out without sample transfer between multiple devices. The device includes a reservoir, a column for holding chromatography media, a holder region for holding a filtration device, and an outlet. The filtration device plugs into the holder region of the centrifugal device, and the assembly can be placed in an optional holder. The assembly, with or without the optional holder, can be placed in a conventional centrifuge tube for centrifugation. The entire bind, wash, elute, buffer exchange and concentration steps can be carried out with the apparatus without any pipette transfers (and the associated sample losses. The sample preparation device also can be used for binding and washing steps, in which case the filtration device is not needed, and for buffer exchange and concentration steps, in which case the media is not needed.

FIG. 1