

ABSTRACT

AN ELECTROCHEMICAL CORROSION-RESISTANT CONNECTOR FOR A LIQUID CHROMATOGRAPHY SYSTEM

A connector is configured to fluidically couple a first conduit and a second conduit to enable flow therethrough of a mobile phase for liquid chromatography. The connector includes an electrically-conductive junction for providing, when the electrically-conductive junction is electrically connected with a power source, an electrospray voltage to the mobile phase. The electrically-conductive junction includes a first receptacle having a first sealing surface that interfaces with the mobile phase and fluidically seals with a distal end of the first conduit, a second receptacle having a second sealing surface that interfaces with the mobile phase and fluidically seals with a proximal end of the second conduit, and a through-hole extending from the first receptacle to the second receptacle. The first sealing surface and the second sealing surface each include an electrochemical corrosion-resistant material.

Fig. 6B