FLUID PATH SYSTEM FOR DISSOLUTION AND TRANSPORT OF A HYPERPOLARIZED MATERIAL

ABSTRACT

A fluid path system includes a vial containing a pharmaceutical product therein. A dissolution fluid path is also included in the fluid path system, the dissolution fluid path having an output end in fluid communication with the vial and an input end attached to a pressure vessel containing a dissolution medium. A delivery fluid path is also included in the system having a first end hermetically attached to the vial to transport therefrom a mixture of dissolved pharmaceutical product and dissolution medium and a second end connected to a receiving vessel to receive the mixture. A dissolution fluid path valve is positioned between the pressure vessel and the dissolution fluid path to control flow of the dissolution medium, and a delivery fluid path valve is also included in the fluid path system to control flow of the mixture from the delivery fluid path to the receiving vessel.

Figure 1