said base provided with a circular depression on its upper surface to fit about the tubelike end of said second vessel and sealed in this relationship to form an elution chamber, said base also provided with a lesser radius raised hollow circular well like portion into which the tubular end of said first vessel fits and rests upon the surface of said base, said base hollowed out to form a coneshaped area below the tubular end of said first vessel and said coneshaped area connected to an outlet port under said base,

said first vessel provided with a plurality of small ports about the periphery of the lower neck portion of the tubular end and said base provided with ports aligned with each of the lower neck ports, said base ports connected to the inner space between said tubular body portion of said first vessel and the tubular body of said second vessel, said inner space or chamber of said second vessel connected to an inlet port in said base and an outlet port situated well above said base, an electrode mounted in said base and extending up into the well like (elution) portion of said base,

means to fill said tubular portion of said first vessel with a gel to be separated into its components,

means to circulate a buffer solution through said first vessel and

means to circulate a buffer solution through the lower end of the tubular portion of said second vessel and produce a cooling of the extended lower end of the first vessel and at the same time a D.C.

circuit between the first and second vessels through the gel produces an electrophoresis and a migration of the components of the gel downward

and means to support the gell column in the tubular portion of said first vessel with the lower buffer solution

and means to slice off the lower end of the migrating components as they reach the bottom of their downward migration and collect the desired separated component.

2. An elution chamber comprising an upper tubular shaped portion adapted to be fitted to an electrophoresis gel column with said chamber open to the electrophoresis gel, said chamber further comprising a closed base with multiple laterally extending ports surrounding a centrally located, downwardly positioned exit aperture, said ports connecting said exit aperture with the exterior surface of said elution chamber, whereby the second buffer solution passes around said elution chamber and through said multiple ports to be in contact with an electrophoresis gel, slicing the migrating components leaving the gel.

3. In an apparatus according to claim **2** in which the elution chamber is adapted to circulate buffer so as to support the gel column.

4. In an apparatus according to claim **2** in which the lower circulating zone for the buffer solution surrounds the gel column in its downward migration and produces a cooling effect.

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