

ABSTRACT

The present invention relates to a liquid auto fraction apparatus for column chromatography. According to the present invention, a liquid auto fraction apparatus for column chromatography includes a microtube mounting portion in which a plurality of microtubes for accommodating liquids to be fractionated according to column chromatography are mounted, a liquid supply unit configured to sequentially supplying the liquids to the plurality of microtubes, a light source unit provided on a rear side of the plurality of microtubes to emit light, an image acquisition unit provided on a front side of the plurality of microtubes to acquire images of the plurality of microtubes at preset time intervals while column chromatography is performed, a volume determination unit configured to extract heights of water surfaces of the accommodated liquids by analyzing the images of the plurality of microtubes acquired by the image acquisition unit and configured to determine whether volumes of the liquids accommodated in the plurality of microtube reach a target volume based on the extracted heights of the water surfaces, and a control unit configured to set a reference value for determining whether the volumes reach the target volume and configured to control operations of the liquid supply unit and the image acquisition unit according to a determination result of the volume determination unit.

[FIG. 1]