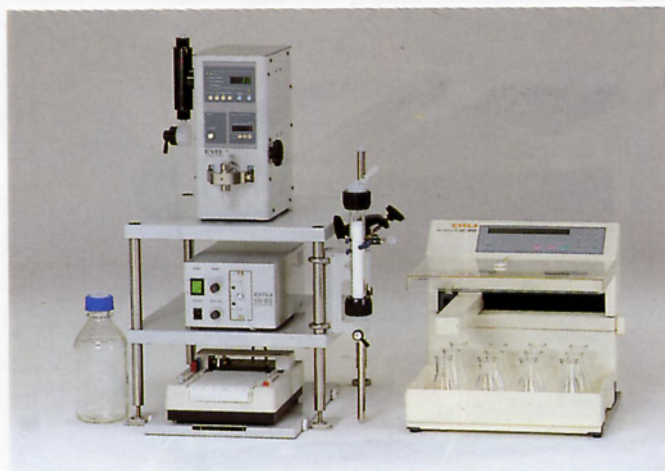


Short time operation for coarse purification

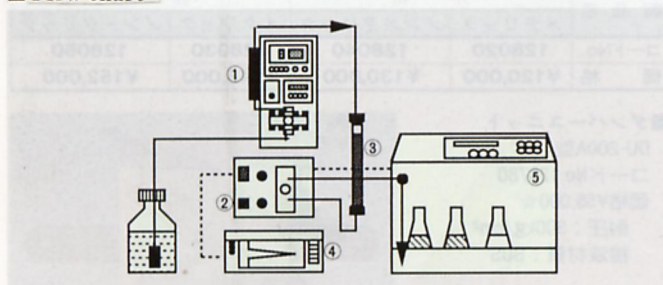


Denaturation is often a problem in ordinary column chromatography because it takes too long time in separation process. In order to solve this problem, flash chromatography was devised and developed by Dr. W.C. Still and other researchers as a coarse purification method. This method has achieved almost the same grade of separation as that of ordinary medium pressure chromatography more easily by improving quality and speed of separation. By flash chromatography, silicagel of 40~60 $\mu$ m packed in column and solvent flashed at linear speed of 5cm/min through the column, ten and several mg of separated sample can be obtained in 10 ~ 15 min.

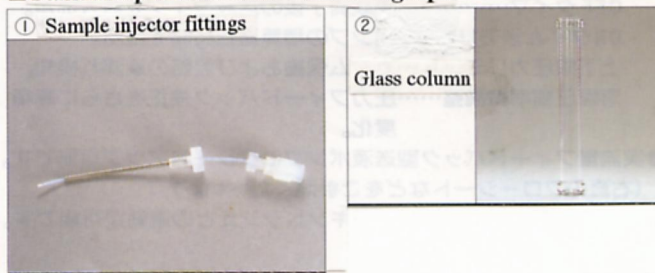
Delivery pump VSP-3050  
 Fixed wave length UV detector UV-D2  
 Flash column ID20mm x L200mm  
 Recorder SS-100F-MM  
 Fraction collector DC-1200  
 (with 3 way valve, I/O connecting cable)  
 System rack STT-120  
 Column stand CS-500  
 Tubing parts set 21

System Number	System 21
<b>Pump</b>	Plunger pump
Flow range	0.5~48.0mL/min
Flow accuracy	$\pm 1\%$
Setting/reading	Digital (rotation)
Pressure range	0~686kPa (0~7kg/cm <sup>2</sup> )
Pressure upper limit	98.1~686kPa(1~7kg/cm <sup>2</sup> )
Pressure lower limit	Auto setting (below 20% of stabilized pressure)
<b>Injection</b>	Direct syringe
<b>Column</b>	Flash column
Column size	ID20 x L200 (mm)
<b>Detector</b>	Fixed wave length UV detector
Wavelength	254nm
Flow cell material	Teflon, quartz, ID1mm, OD2mm
Light path, vol, pres.	1mm, 6 $\mu$ L, 980kPa(10kg/cm <sup>2</sup> )
<b>Fraction collector</b>	Time, Drop, Signal, Volume
Max. fraction	120 test tubes
Fraction mode	Simple, peak, window, manual, bottle
<b>Liquid contact part</b>	For all solvent
<b>Installation space</b>	860W x 550D x 680H

### Flow chart



### Standard parts for flash Chromatograph



### Column for flash chromatograph

