

凝膠滲透層析儀-Waters

Gel Permeation Chromatograph

Model : Waters

一、測試目的：

1.測量水溶性高分子分子量分佈及分離水溶性高分子。

二、樣品準備須知及注意事項：

1.溶劑必需使用二次超純水。

2.實驗前溶劑及樣品應按照規定過濾（0.2 μm 過濾膜）及除氣。

4.樣品注射時，注射針不能有氣泡。

5.注射針、溶劑及過濾器材應自行準備。

6.樣品建議濃度：0.1~0.2% ，注射量 100 μL

三、限制：

1.只適合水溶性高分子樣品。

2.樣品須溶於超純水，才能進行分析。

四、使用方法：

1.系內使用以登記申請，由專責技術員指導自行分析為原則。

2.系外單位使用，須經登記申請，並經系主任及負責老師同意後，始可測試。

五、負責老師：朱建威

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I. Purpose:

1. Water-soluble polymer molecular weight distribution determination.
2. Separation of water-soluble polymer and calculate the absolute molecular weight.

II. Sample preparation instructions and precautions:

1. Mobile phase should be prepared with ultra-pure water.
2. The aqueous mobile phase and samples solution should be microfiltered with a 0.2 μm membrane filter and degassed.
3. Flow rate of mobile phase should not be higher than 0.8 ml / min.
4. No air bubble is allowed in the injected sample.
5. Injection needles, solvent and membrane filter should be provided by the user.
6. Suggested sample concentration: 0.5 ~ 2 mg / ml, injection volume 200 μl .

III. Restrictions:

1. Only for suitable water-soluble polymer samples.
2. Sample should be dissolved in ultra-pure water.

IV. Application:

1. Registration for application in advance is required. Users are required to operate the instrument themselves.
2. For users outside the department application should be signed by the chairman of the Chemical Engineering Department and the professor-in-charge for the equipment.

V. Professor-In-Charge: Chien-Wei Chu