

Suppository Dialysis Cell - Type PTSW-0



The **PTSW-0** Suppository Dissolution Test Cell (Rotating Dialysis Cell) is placed into a normal USP type dissolution vessel placed into a dissolution bath to test the rate of dissolved active of suppositories and lypophilic carriers.



The cell is emerged in the dissolution vessel. It is developed for the study of drug release from hydrophobic carrier preparations, such as suppositories. It encloses a small volume (max. 30ml) of inner fluid by means of a dialysis membrane. The cell itself rotates horizontally in a larger volume of test media which has the same pH as the inner volume. The sample is inside the inner cell. The rotating speed is reduced in a ration of 2 : 1. The active dissolves through the membrane into the outer phase and can be measured therein using common technology like

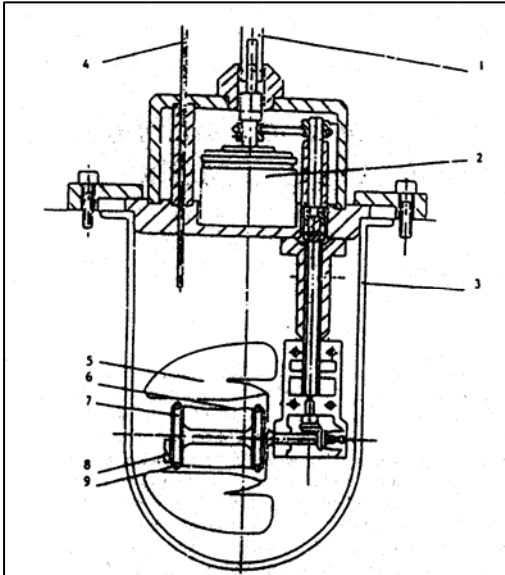
UV/VIS.

A dissolution study has shown that the cell is a suitable tool to study factors which may influence the dissolution and absorption of controlled release formulations.

Reference:

Silvia K. El-Arini, Gerald K. Shiu and Jerome P. Skelly - Pharmaceutical Research, Vol. 7, No. 11. 1990

Cell Design:



- 1 Drive shaft
- 2 Reduction gear drive
- 3 USP glass vessel
- 4 Thermometer
- 5 Agitator blade
- 6 Dialysis membrane
- 7 O-ring
- 8 Dialysis cell
- 9 Plastic insert supporting membrane

Technical data

Rotation: 5 to 60 rpm, reduction gear 2:1
Filter tube: Typical: Milipore Durapor HPLV 0.45 µm
Test stations: 1 - 6

The PTSW O can be used inside the Dissolution Bath types PTWS100, PTWS 300/310, PTWS 600/610 and 1200/1210

We reserve the right to make technical changes without any prior notice