

Dissolution Tester (ZRS-3ST)

Application:

It's used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents. ZRS-3ST dissolution tester is a kind of new type drug dissolution tester which is developed and produced by our company; it adopts classical modeling design and is featured by high cost performance, stability, reliability simple operation and durability.

Main features:

- ◆ ZRS-3ST is a double-functional model with electric lifting head and head overturn; it only needs to manipulate the keyboard when paddle rod or basket rod is replaced, the head can be lifted automatically; the head can be overturned continuously based on the lifted head to make the work of paddle change more convenient and handy.
- ◆ Available for installation of 3 basket rods or paddle rods.
- ◆ Available for installation of 3 new dissolution cups with the height of 185mm and shading dissolution cups as well.
- ◆ Friendly human-computer interface, with simple and convenient operation.
- ◆ All the working parameters can be preset and saved automatically, without the need to set repeatedly when the instrument is started next time
- ◆ Accurate rotating speed, steady operation and low energy consumption.
- ◆ Thermostatic water bath adopts built-in integrated temperature sensor and new software and hardware temperature measurement and control mode, which is featured by fast temperature rise and high precision; temperature deviation can be corrected with software conveniently.
- ◆ Independent operation of startup, pause and reset for experimental timing.
- ◆ Automatic protection functions such as self-inspection fault alarm and over-temperature protection, etc.
- ◆ The paddle rod, basket rod and basket turning body are all made of stainless steel material meet the requirements of Chinese Pharmacopoeia in quality and performance.



Main technical indexes of dissolution tester:

| | |
|--|--|
| Amplitude of swing of stirring paddle | ≤0.3mm |
| Amplitude of swing of rotation basket | ≤0.8mm |
| Deviation of rotating rod and axle of dissolution cup | ≤1mm |
| Speed adjustable range | 20-200 rpm |
| Rotating speed resolution | 1 time/min |
| Water bath temperature adjustment range: room temperature | -45°C |
| Temperature resolution | 0.1°C |
| Temperature control accuracy | ≤±0.3°C |
| Number of sampling periods | 9 different sampling periods can be preset. |
| Time of sampling period | 1-999min optional for each period, 9 sampling periods can be counted down by sections. |
| Timing error | ±0.5min |
| Pharmacopoeia parameter calling | The instrument saves 300 dissolution test parameters in Chinese Pharmacopoeia, which can be called randomly. |
| Large screen liquid crystal display and intelligent menu operation. | |
| The head can lift and descend automatically and attaches overturn function (a model whose control is very convenient). | |
| Electronic sensor can monitor the temperatures of various point of water bath case. | |
| Standard configuration | 3 paddles and 3 cups |
| Electrical heating power | 500W |