

A revolutionary idea to simplify drug dissolution testing

Advantages of Using Crescent Shape Spindle



**Crescent Shape
Spindle**

- Fits in vessel based dissolution apparatuses in place of paddle and basket spindles.
- Does not require product dependent methods or their developments. A single method for both IR & ER products.
- Provides product independent testing to reflect true dissolution characteristics of products.
- Requires a common set of experimental conditions: 900 mL of distilled water as medium at 37 °C with 25 rpm. Small amounts of solubiliser may be used for drugs with low aqueous solubility.
- Same set of experimental conditions for product development and QC purposes. Does not require de-aeration of the medium.
- Rugged: the spindle sits at the bottom of vessel thus testing is free from sensitivities of usual and expected vibrations and variations in vessel/spindle alignments.
- No unstirred and stagnant areas, thus it is free from the artefacts of the “cone” formation and/or positioning effects of the product. Provides higher consistency (repeatability and reproducibility) of dissolution results.
- Provides complete dissolution and extraction of the drug from the product leading to dissolution results matching those obtained from assay and content uniformity tests. Therefore, dissolution tests using crescent shape spindle would make the separate assay and content uniformity testing unnecessary.

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Also available from Distek for Distek Dissolution Testers

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