

Standardized dispersion platform

The Peira HumanShaker is a specialized device designed to **mimic human shaking behavior**.

It's primarily used in the pharmaceutical industry to **standardize the process of redispersing pharmaceutical suspensions**.

This is important because many dosage forms, such as oral, injectable, and ophthalmic suspensions, require uniform distribution of solids before use.



How it works

Lateral Movement: The device uses a lateral shaking motion with a radius of approximately 300 mm. This movement is designed to replicate the way a person would shake a container to mix its contents.

Drive Belt Mechanism: A drive belt, to which a universal holder is attached, facilitates the shaking motion. This holder can accommodate various types of containers used in pharmaceutical testing.

Frequency Control: The shaking frequency can be adjusted up to 5 Hz, allowing for precise control over the intensity of the shaking process. This ensures that the suspensions are thoroughly mixed according to the specific requirements of the test

Features

- 1.Lateral Movement:** It uses a lateral shaking motion with a radius of approximately 300 mm, closely mimicking human shaking behavior
- 2.Adjustable Frequency:** The shaking frequency can be adjusted up to 5 Hz, allowing for precise control over the intensity of the shaking process
- 3.Universal Holder:** The device includes a universal holder that can accommodate various types of containers, making it versatile for different testing needs
- 4.Compliance with GMP:** It is designed to meet pharmaceutical Good Manufacturing Practice (GMP) guidelines, ensuring adherence to industry standards for safety and efficacy

Benefits

- 1.Standardization:** It provides a consistent and standardized method for redispersing pharmaceutical suspensions, ensuring uniformity and reliability in test results
- 2.Efficiency:** The device can operate at frequencies up to 5 Hz, allowing for quick and effective mixing of suspensions
- 3.Compliance:** It adheres to pharmaceutical Good Manufacturing Practice (GMP) guidelines, ensuring that the shaking process meets industry standards for safety and efficacy
- 4.Versatility:** The universal holder can accommodate various types of containers, making it adaptable to different testing needs
- 5.Precision:** By mimicking human shaking behavior, it ensures that the suspensions are mixed in a way that closely resembles manual shaking, which is crucial for certain pharmaceutical applications