

# Pharma Test Announces Improved PT-DDS4 Media Preparation and Degassing System

Germany, Hainburg, August 2021 – Pharma Test announces an improved PT-DDS4 Media Preparation and Degassing System with an optimized tank and pipe outlet with bigger wheels for better daily handling.

The optimized PT-DDS4 features a new tank design with a sloped bottom instead of a flat one to simplify the emptying of the device for cleaning without leaving any remaining liquid in the tank. For this reason as well, the pipe outlet is now longer and curved. The new tank can still hold enough medium for at least two 12-position dissolution testing instruments. The PT-DDS4 now also includes bigger and more sturdy wheels to move the instrument from one working space to the next – no matter what the floor condition might be.



*The optimized PT-DDS4 that quickly deaerates and heats a good amount of medium*



*The new tank of the PT-DDS4 with an optimized bottom and pipe outlet for easy emptying without residues*

## Why is Media Degassing so Important for a Successful Tablet Dissolution Test?

Media degassing or deaeration is essential for a successful tablet dissolution test. It prevents the formation of bubbles due to dissolved air in the dissolution medium on the dosage form which can affect the dissolution test results (USP <1092> and Effects of Deaeration Methods on Dissolution Testing in Aqueous Media; Gao et al. J Pharm Sci. 2006, 95, 1606–1613). Media deaeration is required by the FDA (United States Food and Drug Administration) when dosage forms are sensitive to air bubbles. It has been shown that degassing systems working with the vacuum pump principle such as the Pharma Test PT-DDS4 give the highest benefits.

The PT-DDS4 media preparation instrument features standard gravimetric dosing for precise filling volumes at any working temperature – which is the preferred measurement by the USP for the Procedure for Mechanical Calibration and Performance Verification: “A more accurate and temperature independent measure of the medium volume is through weight”.



*Deaerated vs non-deaerated media: Note the clean cone shape with the deaerated media on the left vs. the amount of flowing particles and air bubbles with the non-deaerated media on the right*

## About Pharma Test

Since over 40 years Pharma Test has been a worldwide household name for the development and production of high-value test devices and systems for the quality control in the pharmaceutical, food and cosmetics industry as well as for universities and public authorities. We offer a complete product range from manual instruments for physical testing to fully automated online dissolution testing systems to analyze the active chemical composition of a dosage form as well as its release rate. Providing well thought-out, long-lasting, user-oriented products and solutions is our driving force.

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