

Laboratory analysis of segregation of powders

Delft Solids Solutions, Delft, the Netherlands, now has the capability to test the tendency for (pharmaceutical) powders to segregate. Often a homogeneous mixture of different types of powders of various sizes, shapes and densities may segregate during handling. Prediction and quantification of this segregation phenomenon can now be accurately measured at the company's laboratory.



The fluidisation segregation tendency of powders is assessed in accordance with ASTM D 6941. In this segregation test, a fixed volume of representative powder sample is fluidised and collected in different fractions. Subsequently, typical characteristics (such as particle size or density) of the top or bottom fraction are determined in order to quantify the segregation tendency of the sample. This experimental approach improves the understanding of how transport and handling can often cause undesired segregation of powders.

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Delft Solids Solutions test rig for measuring powder segregation