WHAT IS HIGH CONTENT SCREENING (HCS)?

High content screening (HCS), also known as high content analysis, image cytometry, quantitative cell analysis or automated cell analysis, is an automated method that is used to identify substances that alter the phenotype of a cell in a desired manner. This technology is primarily used in biological research and drug discovery and combines fluorescent microscopy, automated cell calculations, and phenotyping using image processing algorithms and informatics tools for the user to make decisions about a treatment.

THERMO SCIENTIFIC HIGH CONTENT PRODUCTS

The portfolio of High Content Analysis products includes assay development and screening tools like the Thermo Scientific™ ArrayScan™ XTI High Content Analysis (HCA) Reader and the Thermo Scientific™ CellInsight™ NXT High Content Screening (HCS) Platform. Multiple tools are available for assay development on the ArrayScan XTI HCA Reader like the Thermo Scientific™ X1 large field-of-view, high resolution camera; Live Cell Chamber; and the new Confocal Module, while our software products like Thermo Scientific™ HCS Studio™ Software enable users to develop and make decisions about our assays. With the Thermo Scientific™ HCS101 Class and the diverse portfolio of reagents and consumables, we enable scientists to increase their efficiency with their platform while generating more knowledge about the cell.

For more information on Thermo Scientific™ High Content Products, and a full list of applications by application area, go to thermoscientific.com/highcontent
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