



High-content screening

Learn to paint cells like a pro

Enable cell painting research with the new Image-iT Cell Painting Kit

Are you struggling to use cell morphological and mechanistic data to advance your imaging analysis? Then you need to get painting—cell painting. Cell painting is an advanced technique that can identify thousands of different structures in screening conditions, allowing you to gain novel insights into drug discovery and safety applications. Enhance your cell painting workflow with the new Invitrogen™ Image-iT™ Cell Painting Kit for the Thermo Scientific™ CellInsight™ CX7 LZR Pro High-Content Screening (HCS) Platform, complete with a built-in cell painting assay.

The Image-iT Cell Painting Kit

This kit is a turnkey solution that simplifies your cell painting workflow, providing:

- A pre-optimized, ready-to-use format that takes the hassle out of your staining protocols
- All the reagents used in the original Broad Institute publication by Bray, M-A et al., “Cell Painting, a high-content image-based assay for morphological profiling using multiplexed fluorescent dyes,” which includes Thermo Scientific™ Hoechst™ 33342 stain and Invitrogen™ Alexa Fluor™ 568 Phalloidin and MitoTracker™ Deep Red FM dyes, among others [1]
- Pre-built protocols to get the most out of your cell painting experiments while using the CellInsight CX7 LZR Pro HCS Platform



1. Bray M-A, Singh S, Han H et al. (2016) *Nature Protocols* 11:1757-1774.

The newly optimized HCS Studio 5.0 Cell Analysis Software

Included with the CellInsight CX7 LZR Pro HCS Platform, the Thermo Scientific™ HCS Studio™ 5.0 Cell Analysis Software offers out-of-the-box use for cell painting assays. Together, they allow you to:

- Collect all five channels of data required by the cell painting assay while laser autofocusing

- Populate all image collection settings and analysis parameters
- Collect images and analyze your data in parallel for the fastest time to data available, simplifying your cell painting workflow and supercharging your data

Cell Painting

Cell Painting Assay

Cell Painting is a mechanistic profiling tool used in drug discovery and safety applications. The assay provides a fingerprint of six fluorescent markers across five multiplexed channels to measure both cellular and organelle processes at the single cell level.

[More...](#)

20X 5Ch (Prime 2x2, 1x)
20X 5Ch (X1 2x2, 1x)

Contact your HCS representative to learn more about how the new Image-iT Cell Painting Kit and the CellInsight CX7 LZR Pro HCS Platform enable cell painting:

Name:

Email:

Phone:

Find out more at thermofisher.com/hcs

thermoscientific