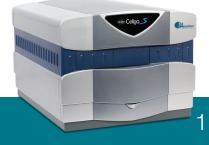
Image Cytometer for Adherent & Suspension Cells



Celígo____

Adherent cells

00

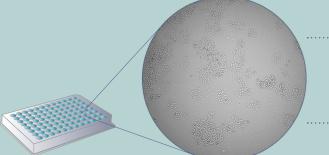
• Brightfield imaging and cell counting without trypsinization

0

- Non destructive, label free cytotoxicity assay
- Growth curve from the same well over multiple days

. IMAGE ····· 2. ANALYZE ····· 3. RESULTS data curves &

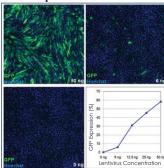
data curves & cell images



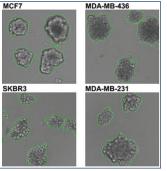
Cell Culture Cell Counting, Confluence, Growth Tracking, Cell Line Generation, Single Cell Detection, Colony Counting, **Transfection Efficiency**

Example Assays Apoptosis, Cell Cycle, Cell Health, Cell Viability, Cytotoxcity, DNA Synthesis, Cell Morphology, Spheroid Analysis, Migration / Invasion Assay, Wound Healing, Expression Analysis, Cell Proliferation, Killing Assays

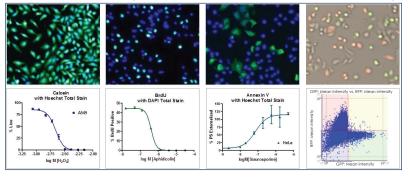
GFP Expression



Spheroid Analysis



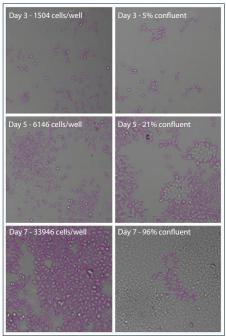
Fluorescent Assays (Viability, Apoptosis, Cell Cycle, GFP/RFP)



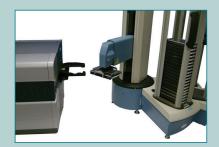
100 60 40

High Throughput Screening Robotic Integration, Cell Health, Proliferation, Fluorescent Assays, Tumorspheres Stem Cell Research iPS Cell Line Generation, Embryoid Body Morphology, Stem Cell Marker, Primary Cell Monitoring, Colony Counting **Bio-Production** Cell Secretion, Cell Line Monitoring, Routine **Quality Controls**

Cell Growth







Features and Benefits

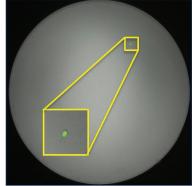
- Increased speed for image acquisition and data processing
- Uniform high contrast and even illumination allows identification of "every cell in every well" with no edge effects
- Best-in-class brightfield mode permits label-free live cell assays
- 4 fluorescent channels allow multiplexed assays
- Proprietary optics provide high resolution images (1 μm / pixel) with minimum plate movement ensuring minimal sample disturbance
- Multiple focus modes to support many plate types
- Powerful, easy-to-use software reduces need for specialized users
- Automation interface for robotic integration enables 24/7 Celigo use
- Simultaneous data acquisition and analysis for high throughput applications
- Rapid image capture and processing allowing imaging and analysis of over 150,000 wells per day
- Proven performance with a wide range of adherent and non-adherent cell types

Celigo S advanced c	optics, sophistic	ated software	and improve	ed performa	nce provide:	
Plate Compatibility	6, 12, 24, 48, 96, 384, 1536 well plates (black, white and clear well plates) / T-25 and T-75 fl asks. Slides and cell array plate profiles available upon request					
		Plate		Typical Time		
	1536-well plate			<6min		
	3		<2min			
	9	96-well plate		<3.5min		
	2 um / pixel resolution results. Faster times available at other resolutions					
Software	Powerful analysis software running under Windows 7					
Illumitaion / Optics	 1 LED-based enhanced brightfield imaging channel with uniform well illumina 4 LED-based fluorescent channels Proprietary F-theta lens with superior well edge-to-edge contrast Large chip CCD camera (2024 x 2024 pixels) 1 µm/pixel resolution (choice of 1, 2, 4, 8 µm/pixel) 					
			noice of 1, 2,	4, 8 µm/pixe	1)	
Fluorescent Channels	Channel	Excitation	Dichroic	4, 8 µm/pixel Emission	I) Example Dyes	
	Channel Blue	,	1		, 1	
		Excitation	Dichroic	Emission	Example Dyes Hoechst, DAPI FITC, Calcein, GFP, Alexa Fluor® 488	
	Blue	Excitation 377/50	Dichroic 409	Emission 470/22	Example Dyes Hoechst, DAPI FITC, Calcein, GFP, Alexa Fluor®	
	Blue Green	Excitation 377/50 483/32	Dichroic 409 506	Emission 470/22 536/40	Example Dyes Hoechst, DAPI FITC, Calcein, GFP, Alexa Fluor® 488 R-PE, PI, Texas Red, Alexa Fluor®	
	Blue Green Red Far-Red	Excitation 377/50 483/32 531/40	Dichroic 409 506 593 660	Emission 470/22 536/40 629/53 688/31	Example Dyes Hoechst, DAPI FITC, Calcein, GFP, Alexa Fluor® 488 R-PE, PI, Texas Red, Alexa Fluor® 568 DRAQ5®, Alexa Fluor® 647	

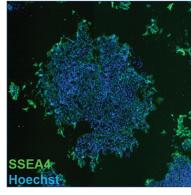


www.nexcelom.com | 978.327.5340 | info@nexcelom.com Nexcelom products are for RESEARCH USE ONLY and are not approved for diagnostic or therapeutic use. © Copyright 2016 Nexcelom Bioscience LLC. All Rights Reserved.

Cell Line Development



Stem Cell Surface Marker



Request a Demo!

Sign-up for an online demonstration by an Applications Specialist.

Call or email to sign up. Mention Celigo.

E-mail info@nexcelom.com or call 978-327-5340

