



How healthy are your cells?

Advanced cell fitness panel for Cellaca[®] MX and Cellometer[®] Spectrum systems.

Multiple assay parameters are used to investigate cell sample fitness. For the first time, these individual tests have been combined into a single kit to provide critical insight into sample health and quality.

1. Viability - AO/PI (acridine orange and propidium iodide)

Proven to be a more accurate cell viability assay compared to trypan blue

2. Vitality/enzymatic activity - Calcein AM/PI

Easily determine whether cells are metabolically active or not

3. Reactive oxygen species - Total RO

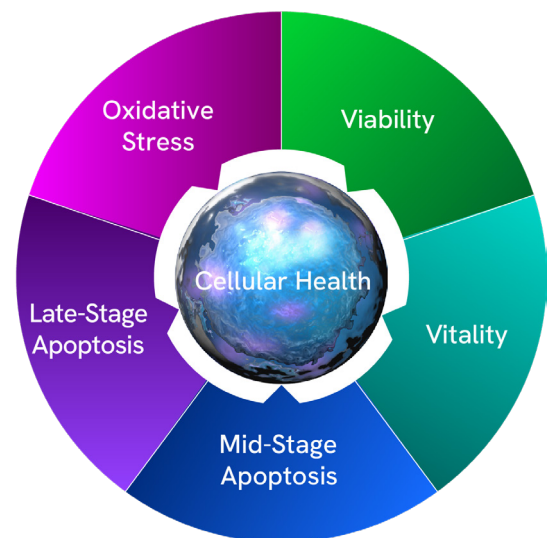
Measure total oxidative stress within your cell culture

4. Mid-stage apoptosis - Annexin V/PI

Rapidly perform a traditional apoptosis assay

5. Late-stage apoptosis - Caspase 3/7

Detect late-stage executioner caspases efficiently



Description	Catalog number	Unit size	Excitation/emission
ViaStain™ cell fitness panel for Cellometer Spectrum	CSK-V0023-1	25 tests per assay	527/655 nm 470/534 nm
ViaStain™ cell fitness panel for Cellaca MX	CSK-V0024-1	1 Cellaca plate per assay	534/655 nm 470/527 nm

Not your average cell counters

Perform cell-based assays and cell counts with one instrument. Both single-sample and high-throughput options are available.

Cellaca MX high-throughput cell counter

High-throughput cell counting

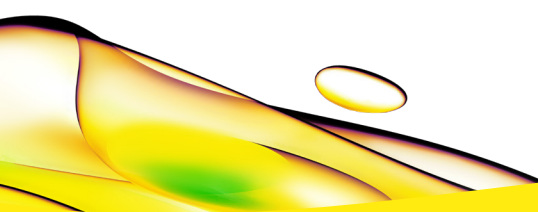
Count 24 plate-based samples in 3 minutes or less



Cellometer Spectrum image cytometry system

Customizable cell counting and image cytometry

Effortlessly run simple two-color assays in 60 seconds



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PhenoPlates for high-content screening

High-content screening has the capability to generate valuable, information-rich image data that bring greater insights into cellular biology and drug discovery screening.

Out of focus images and inaccurate data collection are common issues caused by microplates that are not carefully designed for the unique challenges of high-content screening. This can result in missed data points, sample re-screening, missed project timelines, and ultimately higher costs.

Drawing on many years of experience Revvity expert team has developed the PhenoPlate line of microplates (formerly known as CellCarrier™ Ultra plates). These microplates have been engineered to deliver superior images and the highest quality data for high-content applications.

- Optimal clarity and fast autofocus from excellent flatness of the plate bottom
- Superior image quality from high optical quality of cyclic olefin imaging surface

- Better well access when using water immersion and high NA objectives with ultra-low plate bottom
- Reduced evaporation from new design, low-profile polystyrene lid
- Avoid damaging the imaging surface when stacking with unique corner spacers
- Available with different coatings to suit your application

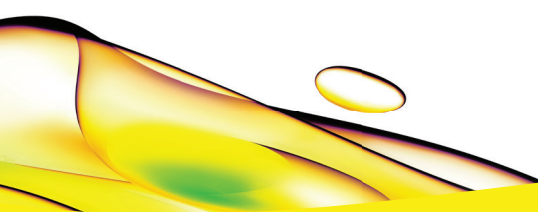
PhenoPlates are part of a range of microplates for high content applications, and belong to our complete solution for high content imaging that includes the Operetta®CLS™ high-content analysis and Opera Phenix®Plus high-content screening systems, software, and automation.

By using PhenoPlates, specifically engineered for high content applications, you can be confident that you'll acquire high quality images providing more information-rich data for easier analysis through unmatched image clarity.



Description	Part numbers				
	Case of 10	Case of 40	Case of 50	Case of 160	Case of 200
96-well PhenoPlates					
PhenoPlate 96-well, black, optically clear flat-bottom, tissue-culture treated, lids		6055302	6055300	6055308	
PhenoPlate 96-well, black, optically clear flat-bottom, poly-D-lysine-coated, lids		6055500		6055508	
PhenoPlate 96-well, black, optically clear flat-bottom, collagen-coated, lids		6055700		6055708	
PhenoPlate 96-well, black, optically clear flat-bottom, fibronectin-coated, lids	6055600	6055602			
PhenoPlate 96-well, black, optically clear flat-bottom, ultra-low-attachment-coated, lids	6055800	6055802			
384-well PhenoPlates	Case of 10	Case of 40	Case of 50	Case of 160	Case of 200
PhenoPlate 384-well, black, optically clear flat-bottom, tissue-culture treated, lids		6057302	6057300	6057308	
PhenoPlate 384-well, black, optically clear flat-bottom, tissue-culture treated, non-irradiated, lids				6057328	
PhenoPlate 384-well, black, optically clear flat-bottom, poly-D-lysine-coated, lids		6057500		6057508	
PhenoPlate 384-well, black, optically clear flat-bottom, collagen-coated, lids		6057700		6057708	
PhenoPlate 384-well, black, optically clear flat-bottom, fibronectin-coated, lids	6057600	6057602			
PhenoPlate 384-well, black, optically clear flat-bottom, ultra-low-attachment-coated, lids	6057800	6057802			
PhenoPlate lids					
Lid, clear, for PhenoPlates, sterile					6057328

Please ask a representative for more information or for a free sample pack. Alternatively, visit www.revvy.com



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Cell culture microplates



Better microplates means better results.

In research and drug discovery today, there is increasing demand for more physiologically relevant assays. As the need for more physiologically relevant assays has increased, so has the need for multi-well microplates designed to support the growth, attachment, and differentiation of cells, whether for ongoing culture or temporarily before cell-based assay. Growing and assaying cells on a single plate eliminates the need for a detachment step and therefore deems the assay more physiologically relevant.

Revvity's CulturPlates™ and PhenoPlates™ are specifically designed to promote cell attachment and growth. These microplates are appropriate for not only cell culture, but also imaging (PhenoPlates, formerly known as CellCarrier™ Ultra plates) or fluorescence and luminescence assays (CulturPlate).



Additionally, Revvity offers a variety of coatings that can be applied to a multitude of our plates to promote cell growth.

- Tissue-culture (TC) treatment allows for cell attachment and binding to the bottom surface of the microplate and is used for assays that use adherent cell lines.
- Poly-D-Lysine (PDL) treatment enhances cell attachment and binding and is used when working with cells that are difficult to attach and when wash steps are needed.
- Collagen (COL) treatment enhances cell attachment and proliferation and is used with working with keratinocytes and hepatocytes, specifically.
- Ultra-low attachment (ULA) treatment allows for further reduction of non-specific binding and is used in cell colony high content screening assays, 3D cultures and other imaging applications.

PhenoPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
Black	Collagen-coated	Yes	96-well			6055700			6055708	
			384-well			6057700			6057708	
	Fibronectin-coated	Yes	96-well	6055600		6055602				
			384-well	6057600		6057602				
	PDL-coated	Yes	96-well			6055500			6055508	
			384-well			6057500			6057508	
	Tissue culture-treated	Yes	96-well			6055302	6055300		6055308	
			384-well			6057302	6057300		6057308	
	ULA-coated	Yes	96-well	6055800		6055802				
			384-well	6057800		6057802				
Non-irradiated tissue culture-treated	Yes	384-well						6057328		

CellCarrier										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
Black	Tissue culture-treated	Yes	1536-well		6004550			6004558		

CellCarrier Spheroid										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
Clear	Ultra Low Attachment, round bottom	Yes	96-well	6055330		6055334			6057328	

CulturPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
White	Tissue-culture treated	Yes*	24-well				6005168			
			96-well				6005680		6005688	6005689
			384-well				6007680		6007688	6007689
			1536-well				6004680			
Black	Tissue-culture treated	Yes*	96-well				6005660		6005668	6005669
			384-well				6007660		6007668	
			1536-well				6004660			

IsoPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
White	Tissue-culture treated, optically clear bottom	Yes	96-well				6005070		6005078	
Black	Tissue-culture treated, optically clear bottom	Yes	96-well				6005050			
White/Black	Tissue-culture treated, black frame, white bottom	Yes	96-well				6005060		6005068	

ProxiPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
White	Tissue-culture treated	Yes*	384-well				6008230		6008238	6008239
Black	Tissue-culture treated	Yes*	384-well				6008210			6008219

ScintiPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
White	Tissue-culture treated	Yes	96-well				6005390			

SpectraPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
Clear	Tissue-culture treated	Yes*	96-well				6005650		6005658	
			384-well				6007650		6007658	6007659
			1536-well				6004650			
	Tissue-culture treated, shallow well	Yes	384-well				6008650			

ViewPlate											
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200	
White	Tissue cultured treated, optically clear bottom	Yes	96-well				6005181				
			384-well			6007480					
			1536-well			6004480					
	Tissue cultured treated, optically clear bottom, ½Area	Yes	96-well			6005760			6005768		
Black	Tissue cultured treated, optically clear bottom	Yes	96-well				6005182	6005225 (2 sleeves of 25)			
			384-well			6007460					
			1536-well			6004460					
		Tissue-culture treated, glass bottom	Yes	96-well			6005430				
		Tissue-culture treated, PDL coated, optically clear bottom	Yes	384-well			6007710			6007718	
				1536-well	6004710						
		Tissue-culture treated, PDL coated, glassbottom	Yes	96-well	6005530 (case of 8)						
		Tissue-culture treated, Collagen coated, optically clear bottom	Yes	384-well			6007810			6007818	
1536-well				6004810							
	Tissue-culture treated, Collagen coated, glassbottom	Yes	96-well	6005720 (case of 8)							

VisiPlate										
Color	Feature	Lid	Well Number	Case of 10	Case of 20	Case of 40	Case of 50	Case of 80	Case of 160	Case of 200
White	Tissue-culture treated, optically clear bottom	Yes	24-well	1450-603 (case of 14)			1450-604 (case of 56)			
Black	Tissue-culture treated, optically clear bottom	Yes	24-well	1450-605 (case fo 14)			450-606 (case of 56)			

*Case of 200 does not include lids. Lids for 96-well plates are part number 6005619 and lids for 384-well plates are part number 6007619.

Please ask a representative for more information or for a free sample pack.



Deepwell LumaPlate-96

Features and benefits

- Sample volumes of up to 300 μL
- Very low backgrounds for greater sensitivity
- High counting efficiency for greater sensitivity
- No variable chemical quench for maximum signal output
- Easy to use with reproducible results
- No liquid radioactive waste - reduces disposal costs

96-well, scintillator coated plates



Description

The Deepwell LumaPlate™-96 is a solid scintillator coated, 96-well microplate that eliminates the need for adding LSC cocktail. This deepwell version has a sample working volume of 300 μL . For analysis of non-volatile samples, simply dispense samples into the standard Deepwell LumaPlate wells, dry down and count on a microplate scintillation counter, such as the Revvity TopCount® or MicroBeta®. The LumaPlate's solid scintillator simplifies single and dual label CPM/DPM counting by eliminating variable chemical quench and in addition dramatically reduces total cost per sample. Deepwell LumaPlates are particularly suitable for samples produced from ^{51}Cr release assays, enzyme inhibition assays, organic extractions, chromatography fractions, and capillary electrophoresis fractions. Bar coded microplates are also available.

Material	Polystyrene
Sterile	No
Lids	No
Tissue culture treated	No
Filter type	Not applicable
Bar code	Optional
White writing area	Not applicable

Typical applications

- HPLC fraction analysis
- Larger sample volumes (up to 300 µL)
- Enzyme inhibition assay
- ⁵¹Cr release assay

Recommended companion products

Microplate sealing:

- TopSeal™-A 6005185
- TopSeal-S 6005161
- MicroMate™ heat sealing system (for TopSeal-S)

Instrumentation:

- TopCount Microplate Scintillation and Luminescence Counter
- MicroBeta Microplate Scintillation and Luminescence Counter

Ordering information

Deepwell LumaPlate-96, 96-well, White,
Scintillator Coated

Case of 50 Part No. 6005630

Barcode labeled Deepwell LumaPlates are available.
Contact your local Revvity representative for details

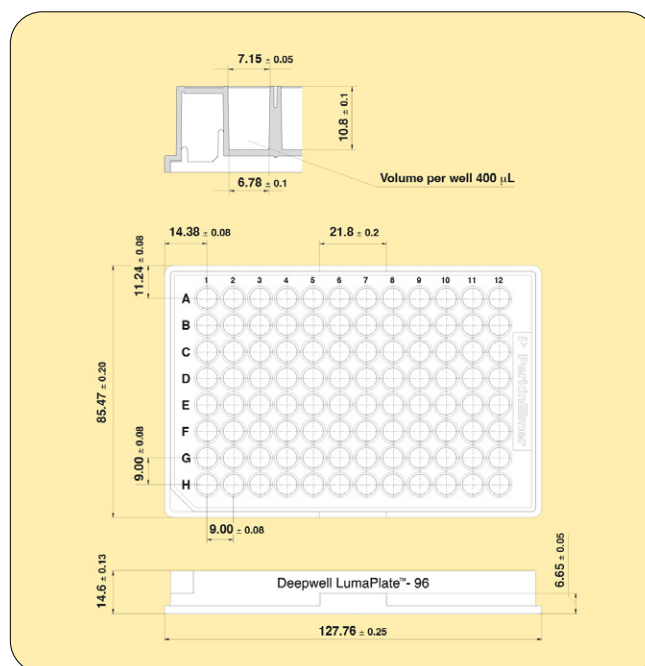
Technical information

Material:

Polystyrene with white colorant.
Scintillator layer on well bottom.

Dimensions (olerances):

Length	127.76 mm	(± 0.25 mm)
Width	85.47 mm	(± 0.20 mm)
Height	14.60 mm	(± 0.13 mm)
Well diameter	7.15 mm	
Well depth	10.80 mm	
Well volume (nominal)	400 µL	
A1 offset to top	11.24 mm	(± 0.08 mm)
A1 offset to side	14.38 mm	(± 0.08 mm)



Experimental results

The chromatogram below (Figure 3) shows the result of two HPLC runs of the same rat urine. Curve B represents a 100 μL injection with 61,500 DPM of ^3H labeled drug and its metabolites measured on-line using the Revvity Radiomatic Model 505TR flow scintillation analyzer. Curve A represents a 7 μL injection with only 4,300 DPM of total radioactivity measured off-line in a Deepwell LumaPlate-96 with the TopCount system. For better visualization, the upper curve of A was also expanded by a factor of five.

When comparing the classical on-line and the new off-line approaches, it becomes clear that curve A shows much more detail than does curve B. In addition to using a 14-fold smaller injection volume, the TopCount/Deepwell LumaPlate-96 combination provides better sensitivity because of a much lower background, while maintaining very high counting efficiency. On a blank Deepwell LumaPlate-96, the background was determined to be only 0-2 CPM. Every count above 4 CPM can be interpreted as a valid tritium signal. It should also be noted that all peak intensities in both curves (A and B) compare well to each other. The main metabolite at a retention time of 16.5 minutes is clearly visible in both curves (A and B). This peak measured by the TopCount shows a better chromatographic resolution than the on-line chromatogram.

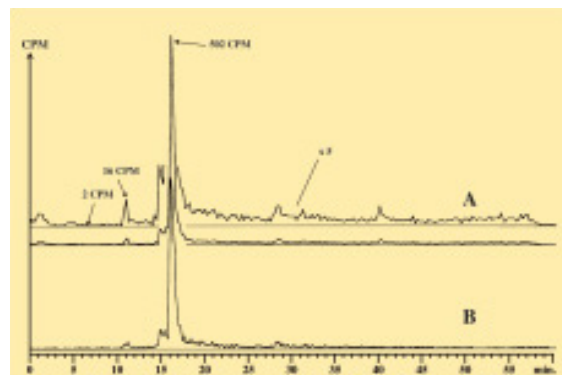


Figure 3: Radioactivity chromatogram of rat urine containing ^3H labeled drug;

A = 4300 DPM (7 μL) injected and counted with the TopCount system (8 minutes per well).

B = 61500 DPM (100 μL) injected and monitored on-line with adding 800 μL LSC-cocktail to a 100 μL mixing cell.

Reference: Packard Application Note AN004-TC

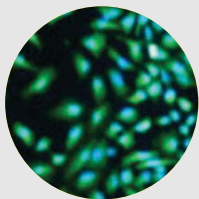
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Better tools for better biology.

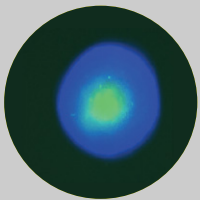
ViaStain reagents, dyes and kits for all your cell-based assay needs

Revvity offers a wide range of fluorescent reagents and kits for cell counting and cell-based assays. Our reagents are optimized to work with Cellometer cell counters and Celigo imaging systems as well as other fluorescence based instruments. Revvity's dependable and high performance products give scientists better tools for better biology for better life!



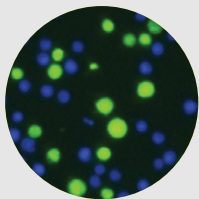
ViaStain™ viability reagents

- Perform in-plate staining and analysis of suspension and adherent cells
- Measure percent viability and number live/dead cells



ViaStain apoptosis reagents

- Measuring programmed cell death using various apoptosis detecting reagents: Annexin V, Caspase 3/7-Live cell, Caspase 3 and Caspase 8
- Use Caspase 3/7 reagents for 2D and 3D cultures



ViaStain proliferation/tracer reagents

- Fluorescent proliferation and cell-labeling dyes for cell identification, cell tracking and co-culture experiments

For research use only. Not approved for diagnostic or therapeutic use.

ViaStain reagents, dyes and kits

Compatible with cellometer image cytometers			
Product name	Product description	Product number	Tests
AO Staining Solution	Acridine Orange: a membrane permeable staining solution for the detection of nucleated cells.	CS1-0108-5mL	250 tests
PI Staining Solution	Propidium Iodide: a membrane impermeable staining solution for the staining of dead nucleated cells.	CS1-0109-5mL	250 tests
AOPI Staining Solution	A staining solution for the detection of live and dead nucleated mammalian cells.	CS2-0106-5mL	250 tests
		CS2-0106-25mL	1250 tests
CFDA-AM Yeast Vitality Stain	A yeast vitality dye which enables breweries to monitor metabolic activity of Lager and Ale yeast. PBS included.	CSK-0125-200µL	100 tests
Yeast Kit for Live/Dead Concentration	A staining solution for the detection of live and dead yeast cells. Yeast dilution buffer included.	CSK-0102-2mL	100 tests
		CSK-0102-10mL	500 tests
Annexin V-FITC	For the detection of apoptotic cells. Use with Annexin V Binding Buffer (CS0-0115-100ML) and PI Staining Solution (CS1-0116).	CS1-0114	20 tests
Annexin V Binding Buffer	Binding buffer for use with BioLegend Annexin V-FITC (CS1-0114).	CS0-0115-100ML	2500 tests
PI Staining Solution	A staining solution for the detection of dead and/or necrotic cells. To be used with Annexin V-FITC (CS1-0114) and Annexin V Binding Buffer (CS0-0115-100ML).	CS1-0116	20 tests
Calcein-AM/PI Cell Vitality - Viability Kit	Detect metabolically active (calcein-AM positive cells) and dead (PI positive) cells.	CSK-0118	100 tests
CaspGLOW™Fluorescein Active Caspase-3 Staining Kit	Staining Kit offers a simple, sensitive method for detection of active Caspase-3 in living cells using a FITC-conjugated caspase-3 inhibitor, DEVD-FMK.	K183-25-N	25 tests
		K183-100-N	100 tests
CaspGLOW™Fluorescein Active Caspase-8 Staining Kit	Staining Kit offers a simple, sensitive method for detection of active Caspase-8 in living cells using a FITC-conjugated caspase-8 inhibitor, IETD-FMK.	K188-25-N	25 tests
		K188-100-N	100 tests
Calcein AM	Enables the users to detect metabolically active, calcein-AM positive cells.	CS1-0119	100 tests

Compatible with Celigo image cytometers

Product name	Product description	Product number	Tests
Calcein AM/Hoechst/PI Viability kit	Label live and metabolically active cells with calcein, dead cells with PI, and detect the total number of cells with Hoechst.	CSK-V0006-1	5, 96-w plates
CMFDA	A green cell tracer dye used for labeling live cells. The dye is retained in the cells over several generations.	CS1-P0001-1	20, 96-w plates
CFSE	A green cell tracer dye used for labeling live cells and monitoring proliferation over multiple generations.	CS1-P0002-1	10, 96-w plates
Tracer Blue	A dye used for labeling live cells. Once it enters the cells, the blue color dye is retained inside live cells.	CS1-P0003-1	1, 96-w plate
Live Caspase 3/7 Detection for 2D/3D Culture	Measure apoptosis in 2D and 3D cultures to perform both real-time kinetic assays.	CS1-V0002-1	2, 96-w plates
Caspase 3/7 Detection for 2D/3D Culture with Hoechst	Measure apoptosis in 2D and 3D cultures for end point assays with Hoechst staining.	CSK-V0003-1	2, 96-w plates
Hoechst/PI	Add and read, no wash, kit designed to determine cell viability by staining dead cells with PI and all cell with Hoechst 33342	CSK-V0005-1	5, 96-w plates



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