

PELCO® GLASS BOTTOM DISHES

Highest quality, sterile; available in clear wall or black wall.

Glass Bottom Dishes are used in the fields of Life Science and Environmental Research, Molecular and Cell Biology, Cell Culture and Cell Physiology, Biotechnology, Neurology, Pathology, Pharmacology and more.

These sterile tissue culture grade polystyrene glass bottom WillCo Wells Petri dishes with lid are available in two sizes, with clear or black plastic sidewalls. Through their advanced design features, they provide exceptional image quality needed for use on inverted microscopes for applications such as high resolution image analysis, microinjection and electro-physiology recording of fluorescent-tagged cells.

The glass bottom WillCo Wells Petri dish uses a special formulated adhesive with a low toxicity that is durable and optically clear. Glass thickness stays within $0.17 \pm 0.01\text{mm}$ and permits use of immersion objectives with water, glycerin or oil. The glass bottom is flush with the microscope stage or heating stage to ensure high stability and optimum heat exchange. The optical quality of the glass bottom provides a higher effective numerical aperture producing brighter high resolution images in all types of microscopy applications.

The glass bottom WillCo Wells Petri dish features a low rim side wall. The low side wall allows easier access for micromanipulation/microinjection probes. The glass bottom WillCo Wells Petri dish is available in two sizes: 35mm diameter and 50mm diameter. Both sizes are available with clear or black side walls.

The 35mm dish has outside dimensions similar to that of a Corning® 35mm dish and will be compatible with most 35mm heaters and perfusion adapters.

The 50mm dish has a well of 35mm providing a large growth area. It has a low access angle and grips for easy handling.

Applications:

- Live Cell Microscopy
- Multi-Photon Laser Scanning Microscopy (MPLSM)
- High Level Laser Fluorescence
- Fluorescence Lifetime Imaging Microscopy (FLIM)
- Fluorescence Resonance Energy Transfer Microscopy (FRET/M)
- Fluorescence Redistribution After Photobleaching Microscopy (FRAPM)
- Epifluorescence Microscopy
- Fluorescence Imaging
- Immunofluorescence Microscopy
- Confocal Microscopy
- Confocal Laser Scanning Microscopy (CLSM)
- Phase Contrast Microscopy
- Polarized Light Microscopy
- Differential Interference Contrast
- High Resolution Image Analysis
- Time Lapsed Photography
- Video-Enhanced Microscopy
- Infrared Imaging
- Calcium Imaging



- Colocalization Studies
- Green Fluorescent Protein (GFP)
- Micromanipulation
- Microinjection

Advantages:

1. Much larger effective range, using an objective lens with a short working distance
2. No birefringence effects because of a thin (0.17mm) glass bottom
3. Low rim/side wall of the dish and a larger effective working distance make micromanipulation and microinjection possible.
4. Higher effective N.A. make brighter images (in e.g.: fluorescence)
5. Higher effective N.A. make higher resolutions in image analysis
6. Microscope light passes through the bottom glass in a rectangular way, glass rests on stage
7. Direct heating from the microscope-stage, because the glass is (flush) in direct contact with stage
8. In IVF, no more oocyte-/embryo-transfer is needed from one plastic dish to another, unless different media are being used, saving a lot of time
9. Easy "perfusion" in the dish for continuous in and outflow of solutions, using "perfusion chamber insert"
10. The glass is used in microscopy for medical, biological and research work, eg. fluorescence microscopy

PELCO® GLASS BOTTOM DISHES



35 x 10mm Clear Wall

50 x 7mm Clear Wall



35 x 10mm Black Wall

50 x 7mm Black Wall



Sterile Blister Packs

Applications specific to Black Wall Glass Bottom Dishes:

Applications listed for Clear Wall on reverse side may also be applicable.

- Live Cell Microscopy
- For low background fluorescent applications
- High Level Laser Fluorescence
- Confocal Microscopy
- Inverted Microscopy

CLEAR Wall Glass Bottom Dishes

Prod. No.	OD x H	Glass Area	Pkg. Type	Unit
Dish Size: 35mm OD x 10mm H, Glass Area: ϕ 12mm				
14020-20	35 x 10mm	12mm	Blister Pack	pkg/20
14020-120	35 x 10mm	12mm	Blister Pack	case/120
14021-20	35 x 10mm	12mm	Sleeve/20	each
14021-200	35 x 10mm	12mm	Sleeve/20	case/10 SI
Dish Size: 35mm OD x 10mm H, Glass Area: ϕ 22mm				
14022-20	35 x 10mm	22mm	Blister Pack	pkg/20
14022-120	35 x 10mm	22mm	Blister Pack	case/120
14023-20	35 x 10mm	22mm	Sleeve/20	each
14023-200	35 x 10mm	22mm	Sleeve/20	case/10 SI
Dish Size: 50mm OD x 7mm H, Glass Area: ϕ 30mm				
14024-20	50 x 7mm	30mm	Blister Pack	pkg/20
14024-120	50 x 7mm	30mm	Blister Pack	case/120
14025-20	50 x 7mm	30mm	Sleeve/20	each
14025-200	50 x 7mm	30mm	Sleeve/20	case/10 SI
Dish Size: 50mm OD x 7mm H, Glass Area: ϕ 40mm				
14026-20	50 x 7mm	40mm	Blister Pack	pkg/20
14026-120	50 x 7mm	40mm	Blister Pack	case/120
14027-20	50 x 7mm	40mm	Sleeve/20	each
14027-200	50 x 7mm	40mm	Sleeve/20	case/10 SI

BLACK Wall Glass Bottom Dishes

Prod. No.	OD x H	Glass Area	Pkg. Type	Unit
Dish Size: 35mm OD x 10mm H, Glass Area: ϕ 12mm				
14028-20	35 x 10mm	12mm	Blister Pack	pkg/20
14028-120	35 x 10mm	12mm	Blister Pack	case/120
14029-20	35 x 10mm	12mm	Sleeve/20	each
14029-200	35 x 10mm	12mm	Sleeve/20	case/10 SI
Dish Size: 35mm OD x 10mm H, Glass Area: ϕ 22mm				
14030-20	35 x 10mm	22mm	Blister Pack	pkg/20
14030-120	35 x 10mm	22mm	Blister Pack	case/120
14031-20	35 x 10mm	22mm	Sleeve/20	each
14031-200	35 x 10mm	22mm	Sleeve/20	case/10 SI
Dish Size: 50mm OD x 7mm H, Glass Area: ϕ 30mm				
14032-20	50 x 7mm	30mm	Blister Pack	pkg/20
14032-120	50 x 7mm	30mm	Blister Pack	case/120
14033-20	50 x 7mm	30mm	Sleeve/20	each
14033-200	50 x 7mm	30mm	Sleeve/20	case/10 SI
Dish Size: 50mm OD x 7mm H, Glass Area: ϕ 40mm				
14035-20	50 x 7mm	40mm	Blister Pack	pkg/20
14035-120	50 x 7mm	40mm	Blister Pack	case/120
14036-20	50 x 7mm	40mm	Sleeve/20	each
14036-200	50 x 7mm	40mm	Sleeve/20	case/10 SI