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Lingyan Tec Co., Ltd.

PETRI DISH



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PETRI DISH

A Petri dish is a commonly used culture vessel in the life science laboratory, widely used for cell culture, microbial culture, colony observation, and laboratory microbial testing. It usually consists of a dish body and a dish lid. The dish body holds the culture medium or provides a culture surface, while the dish lid helps reduce external contamination and protect the culture.

Different experiments have different requirements for Petri dish materials, culture surfaces, structural designs, and dimensions. Lingyan Technology offers cell culture dishes, microbiology Petri dishes, and glass Petri dishes made from PS and borosilicate glass, with a variety of surface treatments and design options to suit different laboratory applications.



CELL CULTURE DISH

Cell culture dishes are primarily used for in vitro cell culture, providing the space needed for cell growth, proliferation, and experimental observation. Made of transparent PS material, these dishes are available with untreated or tissue culture-treated surfaces. Choose according to cell growth characteristics and culture methods; suitable for routine cell culture and related life science research.



FEATURES

Multiple Culture Surfaces

Available with untreated and tissue culture-treated surfaces to meet different cell culture needs.

Anti-Slip Dish Sides

A ridged ring design on the sides makes the dish easier to grip and handle, reducing the risk of dropping it.

Stable Stacking Design

The raised ring on the dish lid fits with the dish base to improve stability when Petri dishes are stacked.

Gas Exchange Design

Ventilation ribs on the dish lid help facilitate gas exchange during culture while reducing the risk of external contamination.

Individually Packaged and Sterile

Sterile, resealable bag packaging makes the dishes convenient to use and store in the laboratory.

Strict Quality Control

Radiation sterilization is used; some products can achieve SAL 10^{-6}, with quality control requirements for DNase/RNase, pyrogens, and cytotoxicity.



SPECIFICATIONS



Diameter
35–150 mm



Sterilization method
Radiation sterilization



Material
PS, compliant with USP Class VI standards



Surface
Untreated surface, tissue culture-treated surface

Table 1: Cell Culture Dish Specifications

Item	Diameter (mm)	Height (mm)	Surface Treatment	Material	Effective Culture Area (cm^2)	Recommended Culture Medium Volume (mL)	Sterilization Method	Packaging (pcs/pack × pcs/carton)
CCD01035	35	12.6	Untreated	PS	8.5	2–3.5	Radiation sterilization	10 × 960
CCD01035-TC	35	12.6	TC-treated	PS	8.5	2–3.5	Radiation sterilization	10 × 960
CCD01060	60	17.3	Untreated	PS	21.2	4–7	Radiation sterilization	10 × 600
CCD01060-TC	60	17.3	TC-treated	PS	21.2	4–7	Radiation sterilization	10 × 600
CCD01070	70	15.5	Untreated	PS	36.3	6–11	Radiation sterilization	10 × 600
CCD01070-TC	70	15.5	TC-treated	PS	36.3	6–11	Radiation sterilization	10 × 600
CCD01090	90	16.9	Untreated	PS	55.0	10–18	Radiation sterilization	10 × 500
CCD01090-TC	90	16.9	TC-treated	PS	55.0	10–18	Radiation sterilization	10 × 500
CCD01100	100	22.6	Untreated	PS	60.8	12–20	Radiation sterilization	10 × 300
CCD01100-TC	100	22.6	TC-treated	PS	60.8	12–20	Radiation sterilization	10 × 300
CCD01150	150	22.7	Untreated	PS	143.0	25–50	Radiation sterilization	1 × 120
CCD01150-TC	150	22.7	TC-treated	PS	143.0	25–50	Radiation sterilization	1 × 120

MICROBIOLOGY PETRI DISH

Microbiology Petri dishes are primarily used for the isolation and cultivation of bacteria, fungi, and other microorganisms, colony observation, and related testing. Made of transparent PS material, these dishes are available in standard round and square formats, as well as divided formats, and include contact dishes for surface microbial sampling. They are suitable for applications such as microbiological research, quality control, and environmental microbial testing.



FEATURES

Highly Transparent Material
Made of PS material with high transparency, making it easy to observe the culture medium and colony growth.

Flat, Smooth Surface
The dish bottom is flat and the surface is smooth, helping the culture medium spread evenly and making colonies easy to observe.

Ventilation Design
Some products feature ventilation ribs on the dish lid to facilitate gas exchange during culturing.

A Variety of Designs
Available in standard round, square, and compartmentalized Petri dishes, as well as contact dishes for surface microbial sampling.

Sterilization Options
Some products can be sterilized using ethylene oxide or radiation sterilization to meet the needs of different laboratory applications.



SPECIFICATIONS

Diameter
35–150 mm

Material
Medical-grade PS

Sterilization method
Ethylene oxide/radiation sterilization

Types
Standard, 2-compartment, 3-compartment, 4-compartment, square, Contact dish

Table 2: Microbiology Petri Dish Specifications

Item	Diameter (mm)	Height (mm)	Type	Material	Sterilization Method	Packaging (pcs/pack × packs/carton)
MPD01035	35	15	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 200
MPD01055	55	16	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 100
MPD01060	60	15	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 100
MPD01070	70	15	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 80
MPD01090	90	15	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 50
MPD01100	100	17	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 50
MPD01120	120	20	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 32
MPD01150	150	16	Standard	PS	Ethylene oxide/Radiation sterilization	10 × 20
MPD01090-2	90	15	2-compartment	PS	Ethylene oxide/Radiation sterilization	10 × 50
MPD01090-3	90	15	3-compartment	PS	Ethylene oxide/Radiation sterilization	10 × 50
MPD01090-4	90	15	4-compartment	PS	Ethylene oxide/Radiation sterilization	10 × 50
MPD01100-S	100 × 100	-	Square	PS	Ethylene oxide/Radiation sterilization	10 × 50
MPD01130-S	130 × 130	-	Square	PS	Ethylene oxide/Radiation sterilization	10 × 30
MPD01065-C	65	15	Contact dish	PS	Ethylene oxide/Radiation sterilization	20 × 1080

GLASS PETRI DISH

The glass Petri dish is made of borosilicate glass, offering good heat resistance and chemical stability. It can be used for microbial culture and other suitable laboratory procedures. Compared with disposable plastic Petri dishes, glass Petri dishes can be cleaned, sterilized, and reused according to product use requirements, making them suitable for laboratory environments that require heat-resistant or reusable culture vessels.



FEATURES

Borosilicate Glass
Offers good heat resistance and chemical stability, and can withstand high-temperature sterilization under suitable conditions.

Good Optical Clarity
The smooth surface offers good light transmission, making it easy to observe cultures and biological samples.

Acid-, Alkali-, and Corrosion-Resistant
Offers good resistance to many common chemical reagents, making it suitable for different laboratory environments.

Reusable
Can be cleaned, sterilized, and reused according to product requirements, making it suitable for routine laboratory procedures.

Heat-resistant and Sterilizable
Made of borosilicate glass, it can be treated using suitable methods such as autoclaving, according to product requirements.



SPECIFICATIONS

Diameter
35–200 mm

Material
Borosilicate glass

Table 3: Glass Petri Dish Specifications

Item	Diameter (mm)	Height (mm)	Material	Packaging (pcs/pack × pcs/carton)
GPD01035	35	14	Borosilicate glass	30 × 600
GPD01060	60	15	Borosilicate glass	10 × 300
GPD01075	75	16	Borosilicate glass	10 × 200
GPD01089	89	18	Borosilicate glass	10 × 120
GPD01099	99	19	Borosilicate glass	10 × 120
GPD01119	119	26	Borosilicate glass	10 × 60
GPD01148	148	30	Borosilicate glass	5 × 40
GPD01180	180	30	Borosilicate glass	4 × 32
GPD01198	198	30	Borosilicate glass	4 × 32

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Different Petri dishes have distinct characteristics in their materials, surface properties, and structural designs. Cell culture dishes focus on the suitability of the cell growth surface, microbiology Petri dishes offer a variety of culture and sampling structures, and glass Petri dishes are suitable for experimental settings that require material durability and repeated use.

Lingyan Technology is committed to providing Life science laboratories with a diverse range of product options and supporting solutions. We can help customers select suitable Petri dishes and related laboratory consumables based on their experimental applications, size specifications, and purchasing needs.
Welcome to contact us for more product information, specification details, and purchasing support.



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