

Planet-Safe® Sustainable Labware (Planet-Safe® Petri Dishes)

100% Plant-Based Sustainably Sourced Cell Culture

Product Description

Planet-Safe® Sustainable Labware from Diversified Biotech is labware made from polylactic acid (PLA), a biodegradable and compostable resin derived from non-GMO renewable resources such as sugarcane. PLA is considerably more hydrophilic than petrochemical resins such as polystyrene. This beneficial property allows a variety of anchorage-dependent eukaryotic cell species to grow on the culture surface without added coatings or treatments.



Superior Cell-Growth

Test cultures with Planet-Safe® Labware show normal growth and support of adherent Human Embryonic Kidney-derived cells (HEK293) and Monkey Kidney Fibroblast-derived cells (COS). Observed growth rate and confluence results were comparable to leading tissue-cultureware.

Planet-Safe® labware has excellent optical transparency for microscopic examination of cells and outstanding resistance to many organic solvents including alcohols, ketones and hydrocarbons.

Certified Eco-Friendly

Planet-Safe® labware has successfully fulfilled ISO 20200/ASTM requirements indicating they are:

- 100% Plant-Based (FTIR Analysis)
- Commercially Compostable (ASTM D 6400-21)
- Safe for Plant Growth Once Composted (OECD 208)

QUALITY - TRACEABILITY - INTEGRITY

Life Science Group

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Life Science Production, Antibody Production Services and Diagnostic Kit Services are divisions of Life Science Group Ltd

Registered in England and Wales Company Number: 06606016



Additionally, raw material cultivation and harvest are certified by Bonsucro, a leading global sustainability platform that promotes sustainable sugarcane production, processing and trade around the world.

Eco-Responsible Disposal

Disposing of Planet-Safe® labware is convenient and environmentally sustainable. All Planet-Safe® labware is commercially compostable where available. When required, biohazardous labware may be incinerated releasing a neutral amount of carbon dioxide and water. Planet-Safe® may also be disposed of in a landfill providing a carbon sequestration benefit three times greater than that of traditional plastic labware.

Temperature

PLA has a lower softening temperature than polystyrene. Accordingly, autoclave-sterilized agar-containing culture medium should be cooled to 65°C when possible. Applications pouring above 65°C should test Planet-Safe® labware prior to use. After pouring media, cell culture dishes should remain undisturbed for 2-3 minutes before moving.

Dimensions (Lid & Base)

100mm x 15mm (nominal), 91mm x 16mm (actual)

Unit of Measure

A case containing 375 Petri Dishes in 25 sleeves

Sterilization Method

E-Beam Irradiation

Country of Origin

United States of America

Applications

Microbiology Cell growth including anchorage-dependent eukaryotic cells

Features

Flat design for optical transparency Vented lid with 4 vents for even gas exchange Stackable

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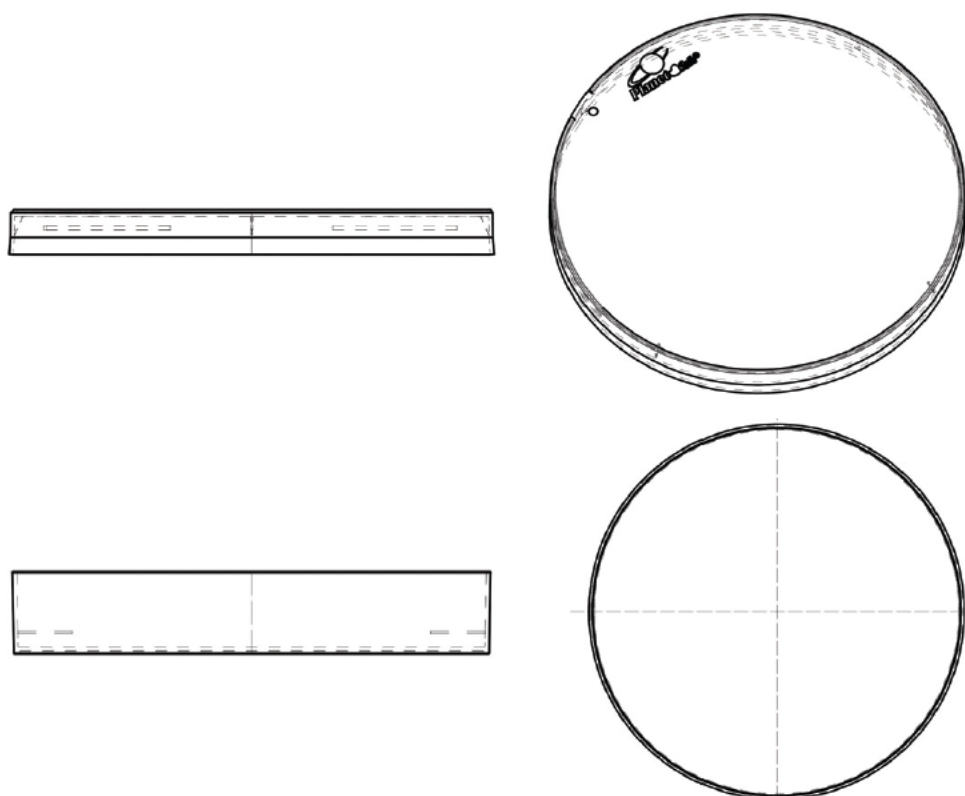


Untreated hydrophilic surface for excellent cellular growth

DNA(se) and RNA(as) free

Regulatory Compliance

Manufactured using FDA compliant resin without the use of additional release agents or additives to remain DNase/RNase free. Produced under cGMP guidelines in a controlled environment, fully automated and without human intervention of parts contained within the main sterility barrier. All products are inspected according to applicable specifications and have passed quality inspection procedures prior to final approval for release.



	Inner Diameter (mm)	Outer Diameter (mm)	Height (mm)	Weight (g)
Petri Dish Lid	89.56	91.31	8.4	8.85
Petri Dish Base	85.83	88.19	14.88	10.19
Covered Petri Dish	-	89.56	16.30	19.04

	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
Petri Dish Case Unit	53.3	53.3	27.9	9.53

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Product Sizes

PLATE-1000	Planet-Safe® Microplates, 96-well, Flat Bottom, Sterile, 100/cs
PLATE-1000-NS	Planet-Safe® Microplates, 96-well, Flat Bottom, NON-Sterile, 100/cs
PLATE-2000	Planet-Safe® Microplates, 96-well, Round Bottom, Sterile, 100/cs
PLATE-2000-NS	Planet-Safe® Microplates, 96-well, Round Bottom, NON-Sterile, 100/cs
PSPD-1000	Planet-Safe® Cell Culture Dishes, Sterile, 100mm, 375/cs

Support

Life Science Production is a division of Life Science Group Ltd.

Life Science Production is [ISIA Traceability Certified](#)

Life Science Group Ltd is an ISO 9001:2015 Certified company

To learn more, contact us:

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