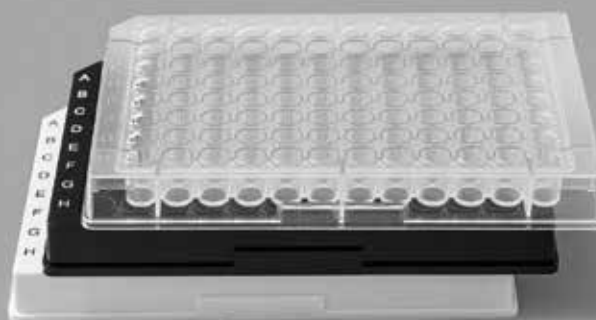


Meet the **microPLAtes**

Green Elephant® 96-well microPLAtes

Flat-bottom, 96-well microplates
made from bioplastic

**Change your plates –
not the climate!**



Say hello to the Green Elephant® 96-well microPLAte, a high performance microtiter plate made from the bioplastic polylactic acid (PLA). This plate aligns quality and performance with your sustainability principles. Available in a clear, black, and white version.

**There's only one thing
that changes:**

your lab's carbon footprint.

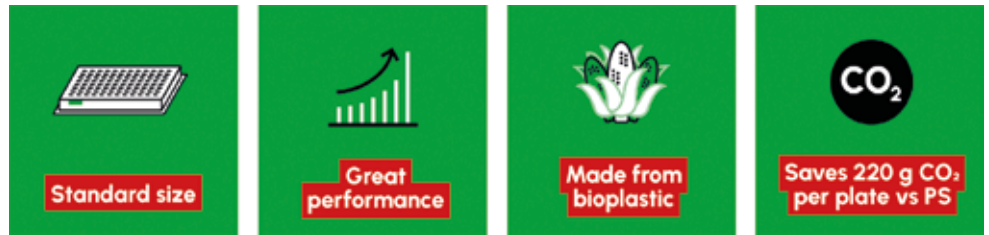
- High performance 96-well microPLAtes made from bioplastic
- 50% reduction in environmental impact compared to polystyrene plates
- Flat-bottom, without lids, non-sterile
- Suitable for colorimetric, luminescence- and fluorescence-based assays, immunoassays, imaging, and quantifications
- Compatible with leading robotics, plate readers, and standard laboratory equipment
- Manufactured in Germany
- Available in clear, black and white with F-bottom, meeting Standards ANSI/SLAS 1-2004 through ANSI/SLAS 4-2004

High-performance bioplastic microPLates

For more sustainable workflows

Ditch the oil-plastic microplates, choose bioplastic.

Well done you!



Simply swap your oil-based polystyrene microplates for plant-based bioplastic microPLates. MicroPLates are the same size, same design, great assay performance, just half the environmental impact. Manufactured in Germany under ISO 9001 conditions, Green Elephant Biotech's 96-well microPLates meet Standards ANSI/SLAS 1-2004 to 4-2004. That means you can continue your experiments just as before – only now with the added benefit of choosing a more sustainable option.

Make the move from oil plastic polystyrene (PS) to bioplastic polylactic acid (PLA) microPLates

✓ High performance in your lab

- Standard size, great performance, just made of bioplastics
- Great chemical resistance and long-term storage stability
- Simple swap for a wide range of applications including colorimetric, luminescence- and fluorescence-based assays, immunoassays, imaging, and quantifications

✓ Better for the environment

- Made from plant-based bioplastic polylactic acid (PLA)
- 50% reduction in environmental impact
- Disposed of just as normal to release the CO₂ first captured by the corn
- Helps your lab reach its sustainability targets



Product carbon footprint of one 96-well microPLATE



- Common emissions
- Disposal
- Distribution and storage
- Production
- Material

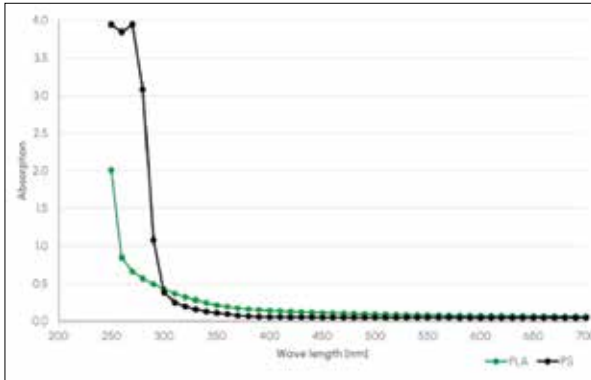
The 96-well microPLates' carbon footprint was calculated using the cradle-to-customer plus end-of-life approach. In this combined approach, the focus of the calculation is on those processes that can be controlled by the producer. The emissions from the use phase are mostly not controllable and are subject to assumptions and estimates in the application and are therefore not taken into account in this calculation.

Compatible with your lab equipment

MicroPLates work just like standard plates in appropriate laboratory instruments and robotics.

Find all devices tested for fit in the compatible devices list on our website.

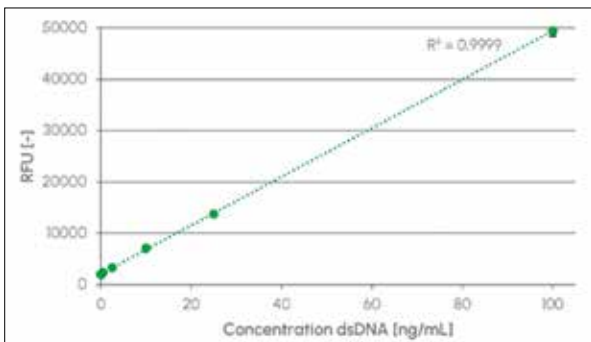




Colorimetric assay performance | clear

Clear 96-well microPLAtes provide low background signal and minimal autofluorescence, enabling reliable absorbance and imaging readouts. Protein and DNA adhesion are comparable to standard PS plates, supporting consistent assay performance. With stability from -80 °C to +40 °C and resistance to common laboratory solvents, it suits ELISA, colorimetric assays, and general sample handling.

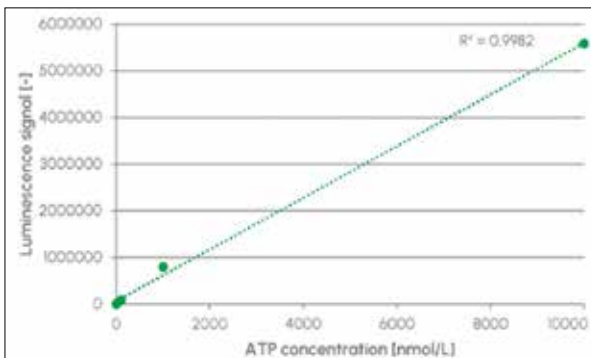
◀ Comparison of the absorption spectra of the PS and PLA 96-well plates.



Fluorescence assay performance | black

Black 96-well microPLAtes minimize optical crosstalk for precise fluorescence measurements, delivering a highly linear response even at low analyte levels with strong signal-to-noise and low variability. Resistant to typical buffer and solvent conditions, they support robust performance in DNA quantification, fluorescent reporter assays, and high-throughput screening workflows while offering a more sustainable material solution.

◀ Fluorescence signals of the different dsDNA concentrations [ng/mL] in the black 96-well PLA plate. The linear trend line, including the coefficient of determination (R^2), is also shown. $n=3$



Luminescence assay performance | white

White 96-well microPLAtes enhance luminescent signal capture and reflection, enabling sensitive detection across a broad dynamic range with consistently low variability. Chemically stable under standard assay conditions and temperature-resistant for routine workflows, they perform reliably in ATP-based cell viability assays, enzyme kinetics, and luminescent reporter systems requiring reproducible and quantitative readouts.

◀ Luminescence signal of the different ATP concentrations [nmol/L] in the white 96-well PLA plate. The linear trend line, including the coefficient of determination (R^2), is also shown. $n=3$

Thousands of applications

You bring the science. We bring sustainable plates.

Clear 96-well microPLAtes

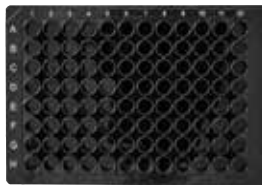
Art. Nr. GEWP96FBT
Suitable for...



- ✓ Colorimetric cell viability & enzyme activity assays
- ✓ ELISA & immunoassays
- ✓ Nucleic acid & protein quantification, nucleic acid purification
- ✓ Metabolic substrate quantification
- ✓ Cell & colony visualization and imaging
- ✓ Sample dilution, flow cytometry sample prep, PCR prep
- ✓ Cell dilution and staining (trypan blue)

Black 96-well microPLAtes

Art. Nr. GEWP96FBB
Suitable for...



- ✓ Fluorescent viability & enzyme activity assays
- ✓ Fluorescent DNA/RNA quantification
- ✓ Fluorescent ROS, membrane potential & ion flux studies
- ✓ Fluorescent reporter gene systems & protein tags
- ✓ Fluorescent intracellular pH & environment probes

White 96-well microPLAtes

Art. Nr. GEWP96FBW
Suitable for...



- ✓ Luminescent cell viability & enzyme activity assays
- ✓ Chemiluminescent assays
- ✓ Luminescent ADME/mechanism of action studies
- ✓ Luminescent apoptosis, necrosis & cell health pathways
- ✓ Luminescent ROS, inflammation & receptor binding/protein-protein interaction studies

Green Elephant® 96-well microPLates

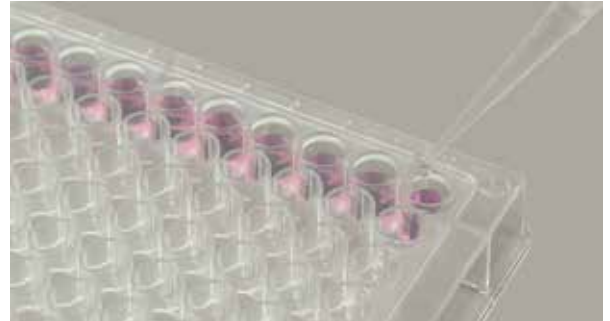
are made of injection moulded PLA in Germany to industry standards

Design

- MicroPLates meet standards ANSI/SLAS 1-2004 through ANSI/SLAS 4-2004
- Made from 100% plant-based material
- Weight: 49 g per plate
- Width: 85.18 mm, Length: 127.76 mm, Height: 14.35 mm

Performance

- Theoretical total volume: 372 µL/well
- Working volume: 50 – 200 µL/well
- Material: ≥98 % Polylactic acid
- Color: Clear, black, white
- Temperature range: -80 °C to +40 °C
- Storage: Room temperature, sunlight protected
- Centrifugability: Yes, up to 4000 xg
- Autoclavability: No
- Certificates: Endotoxin-free, non-cytotoxic, free of animal contents, human DNA, DNase-, and RNase-free



Logistics

- Packing unit: 100 pieces per case
- Packaging dimension (100 pcs): 410 x 350 x 270 mm
- Shelf life: 24 months

Quality

- Products undergo continuous quality controls regarding function, precision, and reproducibility
- ISO 9001:2015-09 certified QMS
- Traceability to production is ensured through a standardized lot number system
- Manufactured in Germany

Manufacturing quality

Quality made in Germany.

ISO certified, with qualitative and functional testing to meet industry standards.

Manufactured in Germany: Green Elephant Biotech certifies that the product has been manufactured in accordance to established manufacturing guidelines and product specifications.

ISO certification: Green Elephant Biotech's quality management system is certified according to ISO 9001:2015-09.

Functional testing: Products undergo continuous quality controls regarding function, precision, and reproducibility. Dimensional checks, transparency, and testing of precision and accuracy are part of Green Elephant Biotech's quality assurance standards.

Biocompatibility testing: Biological testing procedures ensure that the product is free of endotoxins (< 2 pg/µL), DNase (DNA Digestion, LOD: < 10⁶ Kunitz-Units) and RNase (RNA Digestion, LOD: < 10⁹ Kunitz-Units). Testing is conducted by an independent, EN ISO/ IEC 17025-accredited laboratory.



Biozym
SCIENCE IS OUR BUSINESS

www.biozym.com

Biozym Scientific GmbH

Tel.: +49 (0) 5152 9020

Mail: support@biozym.com



Biozym Biotech Trading GmbH

Tel.: +43 (0) 1 334 0156 0

Mail: support@biozym.com