

PE  
(Polyethylene)

PP  
(Polypropylene)

PMMA  
(Polymethyl methacrylate)

PA  
(Nylon)



# THE PLASTIC FOOTPRINT

## Micro plastic pollution

### PLASTIC WASTAGE - WHAT LABS CAN DO?!

**2x**

The world is producing twice as much plastic as it was two decades ago

**5.5 MT**

Every year, laboratories produce 5.5 million tonnes of waste

**9%**

Only 9% of the plastic produced is eventually recycled

**22%**

22% of plastic produced is estimated to be mismanaged

The amount of plastic wastage by laboratories is projected to double in the next 20 years. Microplastics are entering our food system(1), our blood(2) and even seen in human placenta(3) and breast milk(4).

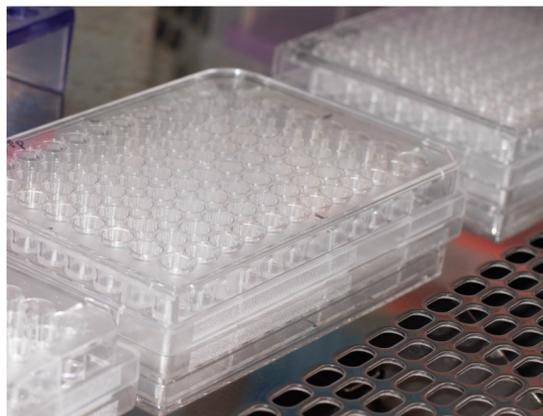
**Good science is the key to solving these issues.**

To achieve any difference, scientific processes must be made sustainable and the change can start within **OUR LABS.**

***Solutions exist** to allow organizations to reuse the long thought single-use plastics. The reuse of pipette tips and microplates can significantly reduce a lab's carbon footprint and impact on climate.*



Clean & reuse your plastic pipette tips



Clean & reuse your microplates



Clean & reuse your filtered pipette tips

(1) <https://cen.acs.org/environment/pollution/pervasiveness-microplastics/97/i5#> (2) <https://www.sciencedirect.com/science/article/pii/S0160412022001258>  
 (3) <https://www.sciencedirect.com/science/article/pii/S0160412020322297> (4) <https://www.mdpi.com/2073-4360/14/13/2700>



## Tipnovus™

- Enables labs to reuse plastic pipette tips numerous times, cutting associated consumable costs by up to 96%.
- Automated and High Throughput (4-tip boxes/wash cycle)
- Robotic Arm-Friendly
- Cleans 16-24 tip racks per hour
- Configurable to 24, 48 and 96 format tip racks



## PurePLATE MCS

- Precision-engineered, and proven to perform the deep cleaning using a combination of liquid wash and cold-plasma exposure.
- Completely removes DNA RNA, siRNA, mRNA, small molecules in DMSO, proteins, enzymes, complete organisms, viruses, subvirals, ag genomic and other genomic and biomolecular material.
- Cleans any ANSI standard, solid body microplate. Can clean 50-55 plates/hour.
- Extended reuse of plates



## PureTIP Plus Standalone System (SaS)

- Uses a continuous pull of plasma up through the **tip and filter** makes it **powerful** due to the increased plasma energy density.
- Takes just a few seconds, and the racks of tips are PCR-clean and ready for reuse.
- Can save up to 98% on the cost of disposable tips and extends the life of fixed tips.

Let the change begin today. Contact us to make an impact!