

Get green with Starlab.

PASSIONATE FOR SUSTAINABILITY IN SCIENCE.



Passionate for science.



A company with a mission.

OUR GREEN MISSION

When you take one step forward in the lab, you should not have to take two steps back where environmental protection is concerned. Only when scientific progress is also sustainable, will it unfold long-term benefits for all of us in terms of climate issues.

That is why we at Starlab have been thinking about sustainability for some time, with long-term corporate planning and durable products. We have already succeeded in saving plastic with our TipOne® pipette tip system. However, the truth is that we all still have a long way to go towards a fully sustainable laboratory.

For you and for our planet, our mission is to continually look for intelligent, climate-friendly products and processes. Together with you, we will strive to achieve our goal of becoming a thoroughly green company. Our promise along the way: to continue to take steps wherever we can – whether large or small – to reduce our impact on the environment.

Sustainability is at the heart our business culture, and we hope this will help us attract the best talent. Through this mission, Starlab will incentivise and reward ecologically sustainable behaviour in everyday business tasks, and we will actively support our employees' engagement with sustainability initiatives in the local or wider communities.

“We need to take responsibility. It requires self-reflection, engagement and the will to make a change for a sustainable future. In our business we need to constantly look for and provide better solutions that direct us to take the next step for being a role model in our industry.”

Klaus Ambos
CEO Starlab International



A certified company.

Taking care of the environment and the prevention of causing negative impacts on the environment are two of the most important challenges facing businesses today. STARLAB is ISO 14001 certified for Environmental Management. At Starlab, we care enough to reduce our environmental footprint having a detailed list of Environmental Aspects with associated Environmental Impacts which we constantly work on reducing.



HERE ARE JUST A FEW OF OUR INTERNAL, SUSTAINABILITY INITIATIVES ACROSS THE STARLAB GROUP

- **OFFICES:** The paperless office ... we know a 100% paperless office is an unrealistic goal, but we do regularly review and audit our internal processes and digitise our administrative processes to reduce paper and printing to the absolute minimum.
- **WAREHOUSE:** We reuse cardboard boxes where possible. Plastic padding has been replaced with 100% biodegradable paper packing. All waste (cardboard, pallets etc) is recycled. Warehouse lighting replaced with energy-saving lamps.
- **PURCHASING:** Product is purchased for the whole Starlab group for more efficient transportation.
- **MARKETING:** Reduced printed material and increased digital solutions. Online shop provides paperless ordering process.
- **SALES TEAM:** Promotes TipOne® refills to customers as the plastic-saving and economical alternative to racked tips. Provide free empty racks for refill users. Help customers rationalise product inventory for efficient ordering and storage of products.
- **SERVICING LABORATORY:** Calibration certificates provided in pdf format. Car sharing or use of public transport to on-site clinics where possible. Reusable boxes provided for sending your pipettes to our labs for servicing.
- **PRODUCT MANAGEMENT:** Reviews and streamlines product portfolio. Audits packaging on existing products to reduce and improve where possible.
- **R&D DEPARTMENT:** Development of greener products that result in the use of less raw materials without compromising quality.

TipOne® – one system, one greener solution.

SAVING PLASTIC SINCE 1998

TipOne® was designed to be a plastic saving pipette tip system. The system is reusable, refillable and recyclable, with every part of the system being interchangeable with the rest. It was the first tip system on the market that provided an easy to use refill system.

The system was redesigned in 2016 with two aims – to update its look, and to save more plastic. Through our expertise in manufacturing, the new system now takes less plastic to manufacture, without compromise to its quality. Compared to the original system, up to 59 % less plastic (by weight, per pack), is required to make the clear refill shells, and a 6 % reduction of plastic achieved per rack. The introduction of a new, sterile refill system provides a saving of up to 63 % less plastic (per pack) compared to the equivalent, racked product.

On top of that, our four, new-generation of quality pipette tips saved up to 40 % plastic, compared to the equivalent older tip of the same volume.



STACK RACK

The clear layers and lid, the blue base and the coloured tip wafers, are all made of recyclable Polypropylene (PP)



BAG

Made from recyclable LDPE



REFILL

The clear bottom trays and lid, and the coloured tip wafers, are all made of recyclable Polypropylene (PP)



RACK

The rack base and lid, and the coloured tip wafer, are all made of recyclable Polypropylene (PP)



STERILE REFILL

The clear bottom shell and lid, and the coloured tip wafer, are all made of recyclable Polypropylene (PP)



REDUCE AND REUSE!

When it comes to plastic waste in the lab, it's obviously good to recycle what you can, but two other important considerations are to REDUCE the amount of plastic coming into your lab in the first place, and second, to REUSE whatever you can.

This is where TipOne® comes into its own – when using our refill systems, you do both! You reduce the amount of new plastic coming into your lab AND you are reusing TipOne® racks at the same time. Here's the amount of plastic saved with every pack of refills compared to pre-racked tips:

PLASTIC SAVED PER PACK OF REFILLS vs PER PACK OF RACKED TIPS

Tip volume	Per pack (960 tips)
10 µl & 10/20 µl XL	466 g
200 µl	546 g
300 µl	546 g
1000 µl	737 g
1250 µl XL	807 g

PLASTIC SAVED PER PACK OF STERILE REFILLS vs PER PACK OF STERILE RACKED TIPS

Tip volume	Per pack (960 tips)
10 µl & 10/20 µl XL	370 g
200 µl	370 g
300 µl	370 g
1000 µl	475 g
1250 µl XL	475 g

TipOne® IS A CONVINCING, SUSTAINABLE PIPETTE TIP SYSTEM

100%



GREEN ENERGY
TipOne® is manufactured in a factory powered entirely by wind.

UP TO 40%



PIPETTE TIPS
Our newest generation of TipOne® tips save up to 40% plastic compared to their equivalent previous version.

100%



CARDBOARD BOXES
Pack and case cartons for TipOne® are made from 100% recycled cardboard.

100



AUTOCCLAVE CYCLES
TipOne® racks are designed to be reused. We have tested them; they can withstand at least 100 autoclave cycles (with wafers inserted) without any loss of shape or quality.

UP TO 63%



PLASTIC SAVED
when using a sterile refill compared to using the racked equivalent.

ZERO



OTHER MATERIAL
TipOne® racks, refills and stack racks are made entirely from recyclable polypropylene (PP) and contain no paper labels, so recycling is quick and easy.

66%



SPACE SAVING
The 1000 µl TipOne® refill redesign provided a 66% space saving compared to the original, which saves both packaging and transportation resources.

UN LIMITED



UPCYCLING OPTIONS
Reuse your TipOne® racks for whatever creative storage solution you can come up with!

TipOne® – reuse, refill, recycle

TipOne® IS THE ORIGINAL REUSABLE, REFILLABLE AND RECYCLABLE TIP SYSTEM



REUSE

TipOne® racks are designed for reuse with the refill systems. Our durable racks (with tip wafers inserted) can withstand at least 100 autoclave cycles without loss of shape or strength.

REDUCE

Save empty TipOne® racks to reuse with the refills. Aim to reuse the racks as many times possible. Why not liaise with other people in your lab or building, and set up a pool of empty racks for sharing to ensure even less waste.

REFILL

TipOne® refills are an economical alternative to pre-racked tips. They save on plastic waste, are quick and easy to use, and do not compromise the tip's cleanliness when racking up.

RECYCLE

All your polypropylene (PP) TipOne® packaging: the racks, the coloured tip wafers, the clear refill bottom shells and lids, and the Stack Rack outer layers and the lid, can be recycled.



TipOne® recycling collections.

RECYCLING IN ITALY

Starlab currently offers recycling collection schemes in the UK, Germany, Austria and some areas of France. Our long term aim is to offer this service across all Starlab-group countries, and this is something that we are currently working towards.

In the meantime, if you have a polypropylene recycling stream at your site, please use it to recycle your TipOne® polypropylene packaging.



HOW IS POLYPROPYLENE RECYCLED?

One of the first steps of the recycling process, is to mill or granulate the propylene into small pieces.

The granulated plastic then goes through various other processes to eventually end up as a raw material that can be used to make other plastic products.



Green ambassadors.

OUR ACCOUNT MANAGERS ARE GREEN AMBASSADORS

This means they have general knowledge of the sustainable lab from a perspective that is not only directly linked to Starlab products. Our sales teams can help you introduce, apply and develop sustainable changes in your labs.

Becoming a Green Ambassador involves learning about the four main topics of lab sustainability:

- Energy
- Waste
- Water
- Green Chemistry & Community

Your Green Ambassadors in Italy:

Andrea Giacomini andrea.giacomini@starlab.it
Alessandro Ferrarini alessandro.ferrarini@starlab.it



www.mygreenlab.org

Tips on **greening** your lab.



REUSE TipOne® RACKS FOR MORE THAN JUST TIP REFILLS

You can reuse empty TipOne® racks to store tubes, caps and other small items to keep your bench or hood tidy and organised. The hinged lid and how the racks stack one on top of the other makes the racks ideal storage boxes.

THINK BEFORE YOU AUTOCLAVE!

Many products are certified. Nine times out ten they probably don't need to be autoclaved. Think of the energy you can save.



FREEZER MANAGEMENT!

Set ultra low freezers to -70°C rather than -80°C; this won't compromise the sample's integrity (always test run with unimportant samples first!) but will save a lot of energy. Buy efficient freezers when replacing old freezers. Defrost regularly to avoid using more energy when loaded with ice. Discard old samples so freezer space is not wasted, and optimise freezer space with sample storage boxes for efficient energy use.

BUY IN BULK!

Buy by the case (Starlab Article Nos ending with -C). It's greener, cheaper, and saves both transport emissions and packing materials.



SWITCH IT OFF!

Equipment not being used should be switched off. Even on standby, equipment can significantly increase the energy used.

CLOSE IT!

Close the fume hood sash when not in use. Even for fixed flow hoods, this can reduce the amount of heated or cooled air escaping the room.

MORE INFO

www.starlab.click/newsroom

See our online **NEWSROOM** for more tips on greening your lab and to read our articles on sustainability.

Our greenest products.

REDUCE



TipOne® refills. (non-sterile/sterile) significantly reduce single-use plastic waste. Ensures the reuse of tip racks. Space-saving which reduces packaging needs and transport emissions.



ErgoOne® Pipettes. Greased system reduces the waste and cost associated with annual seal and o-ring replacement. Stainless steel tip cone on micro models prevents breakage and further part needs.



StarGuard® Gloves. Comfort & Sensitive packed in boxes of 250 & 200 gloves. Up to 40% more gloves in the same size boxes as 100 gloves to reduce packaging needs and transport emissions.



GuardOne® Workstations. Designed with the environment in mind. Minimal packing volume and weight reduces transport needs. Latest fan technology and energy-saving LED light provides one of the lowest power consumptions on the market. Long-life UV lamp.

MORE INFO

www.starlab.click/sustainability

REUSE



TipOne® Racks. Reuse with the refill systems over and over again. The sturdy racks can withstand at least 100 autoclave cycles. Great storing small lab items too!



Pipette Servicing Mailing Boxes. Reuse again and again to mail-in your pipettes for servicing. Reduces waste.

RECYCLE



Centrifuge Tubes. Racked tubes in recyclable cardboard trays. No hard to recycle polystyrene!



TipOne® tips. All polypropylene (PP) packaging components of the system are recyclable.

The Starlab green team.

THE STARLAB GREEN TEAM

Green Teams exist in each country within the Starlab Group (UK, Germany, France and Italy). The GREEN TEAM members are passionate about sustainability and green issues; their role is to research, identify, share and galvanise ideas for improving Starlab's sustainability ratings, be that for both our products, our internal processes or initiatives with the local or wider communities.

If you would like to discuss ways of making your lab greener, or have a suggestion on how we can improve or help you reach your own sustainable goals, please let us know. We are always happy to talk "all things sustainability", and are open to ideas and suggestions or ways in which Starlab could partner with you so together, we can build a greener future in the lab.

Please contact your area Account Manager, or you can contact the **Starlab Green Officer** at: vanessa.whight@starlab.de





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THE UNIVERSAL PIPETTE TIP SYSTEM: ONE SYSTEM, ONE **GREENER** SOLUTION

TipOne® is a plastic-saving, eco-friendly pipette tip system that is designed to be reusable, refillable and recyclable.



**Scan QR code for more
information & ordering**

See our online Newsroom for more tips on greening your lab and to read our articles on sustainability.

NEWSROOM

www.starlab.click/newsroom

**For more info on Starlab's sustainability initiatives:
www.starlab.click/sustainability**