

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.

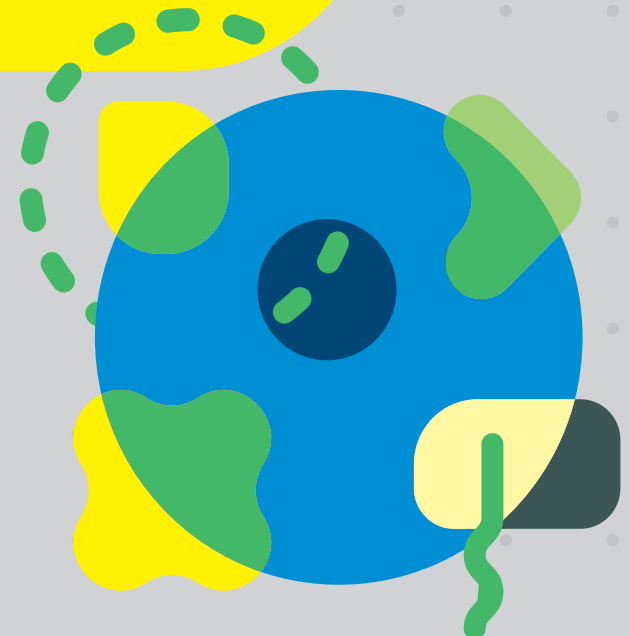
That is why we at Starlab have been thinking about sustainability for some time, with long-term corporate planning and durable products. We have already succeeded in saving plastic with our TipOne® pipette tip system. However, the truth is that we all still have a long way to go towards a fully sustainable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



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



AUTOClave 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.

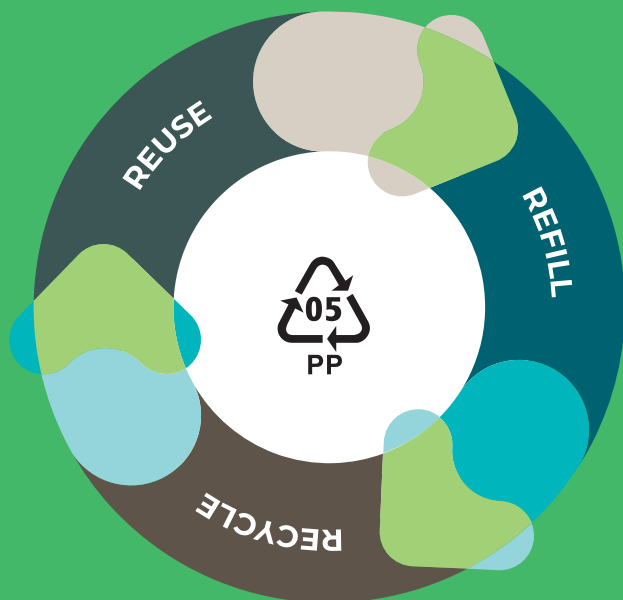
UN LIMITED



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

TipOne® recycling collections.

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 waster, 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.



THE STARLAB RECYCLING COLLECTION SERVICE

The TipOne® recycling collection service is available to all TipOne® customers in the UK. It's easy to use, and you can organise the regularity of collections to suit your needs. Not already using the service? Please contact your area Account Manager or recycling@starlab.co.uk for more information or to register.

A FOUR-STEP GUIDE TO THE STARLAB UK RECYCLING COLLECTION PROCESS

1 COLLECT YOUR TIPONE RECYCLING IN BOXES OR BAGS

- Starlab can only collect TipOne® polypropylene (PP) plastic for recycling
- Your recycling will be collected by DPD Courier
- Collections are free



2 ARRANGING A COLLECTION

- You can arrange collections on an ad-hoc basis, as and when you need them
- To arrange a collection **eMAIL A COMPLETED NON-BIOHAZARD FORM** to recycling@starlab.co.uk and let us know how many bags/boxes of recycling are ready for collection
- We will arrange your collection with DPD, who will collect the recycling within the next few working days
- Ensure you complete all details on the Non-Biohazard Form, including your mobile number, so DPD can contact you with the collection time-slot

3 PRESENTING YOUR RECYCLING FOR COLLECTION

- Recycling can be collected in cardboard boxes or clear bags (no black bags!) with suitable ties.
- Preferably, use a **LARGE CARDBOARD BOX** that's around 500 x 800 x 1000 mm, or up to 10 kg weight.
If you order TipOne® tips by the case (Art. Nos ending -C), you can reuse the case box to send the recycling
- Recycling bags and ties are available from Starlab. You may source your own bags, but they **MUST** be strong enough to hold the recycling without breaking when handled, and have suitable ties. DPD may charge for any additional work caused by split bags

4 ON THE DAY OF COLLECTION

- DPD will send notification* of their **COLLECTION TIME SLOT**
- All boxes/bags containing recycling must be dry, so do not leave outside in the wet. Failed collections – for example, if the recycling is wet or isn't available when the courier arrives – may be chargeable.

*From the contact name, email address and mobile number given on the Biohazard Free Declaration

MORE INFO

www.starlab.click/recycling-UK

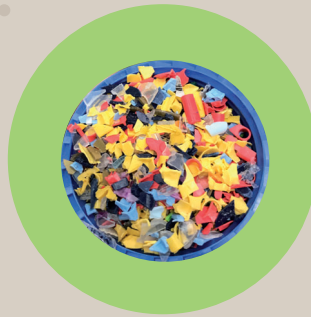
What happens to my recycling?



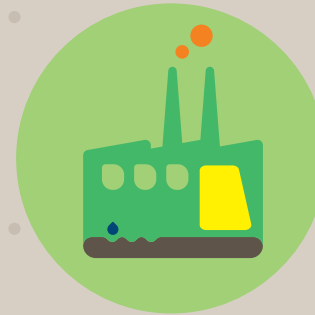
You collect your TipOne® polypropylene (PP) packaging for recycling, and arrange collection



The recycling is taken to the factory for the first step of the recycling process



The first step in the recycling process is the granulation of the TipOne® plastic



The granules then go through various other processes which result in it becoming a new raw material

NEW LIFE AS A DIFFERENT PRODUCT

Which is then used in the manufacture of other plastic products



RECYCLED PLASTIC STORAGE BOX

Did you know that we have a 100-place storage box for tall tubes (**Article No. E2100-5999**), where the base is made entirely from Starlab UK customers' TipOne® recycled plastic? Suitable for tubes with a maximum tube height of 53 mm, the box has fixed 10x10 dividers for tubes with a diameter up to 12.5 mm, such as screw cap microtubes.



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.

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.



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.



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.



Chemgene concentrate.
Long shelf-life reduces waste. Non-corrosive. Biodegradable.



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**