

Environmental concerns,
but you Get Green
with Starlab.
You are passionate
for science.

OUR GREEN MISSION



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's why 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, and our journey to make pipetting more sustainable still continues. However, the truth is that we all still have a long way to go towards a fully sustainable laboratory.

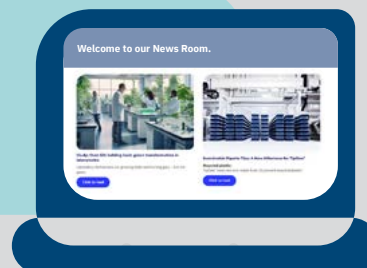
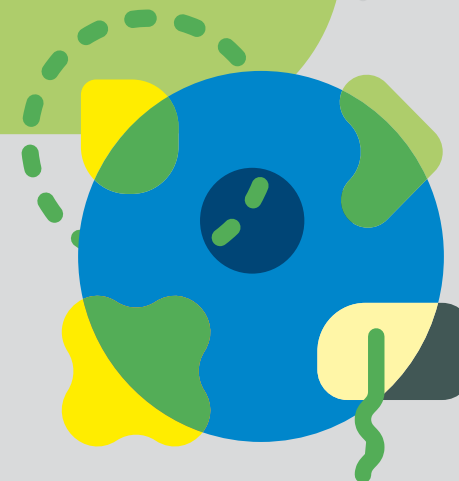
For you and for our planet, our mission is to continually look for intelligent, climate friendly products and processes. Together with you, we will strive to achieve our goal of becoming a thoroughly green company. Our promise along the way: to continue to take steps wherever we can - large or small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

OUR ARTICLES AND PODCASTS

In our newsroom, we have loads of interesting articles covering sustainability in the lab, on topics such as water usage, energy consumption, and how what you buy and use in the lab matters. You will find our podcasts here too!

“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




MORE INFO

www.starlab.click/newsroom

Being green, behind the scenes.



eSHOP
Provides paperless ordering processes.



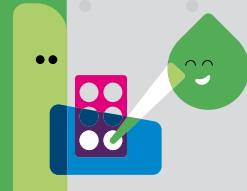
HYBRID WORKING
Reduces the weekly carbon footprint of staff travelling into the office.




MARKETING
Digital first is our mantra! Reduced printed material and increased digital solutions.



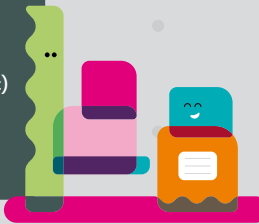
PRODUCT MANAGEMENT
Reviews & streamlines product portfolio. Audits packaging on existing products to reduce where possible. Works with R&D on the development of greener products that result in the use of less raw materials without compromising quality.




SALES TEAM
Promotes TipOne® refills to customers as the plastic-saving and economical alternative to racked tips. Provides free empty racks for refill users. Help customers rationalise product inventory for efficient ordering. Undertakes MGL Green Ambassador Course as part of their training.



SERVICING LABORATORY
Paperless systems with calibration certificates provided in pdf format. Car sharing or use of public transport to on-site clinics where possible. Reusable mailing boxes provided for sending your pipettes to our labs for servicing.



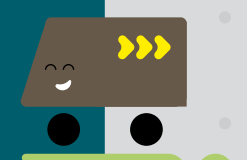
WAREHOUSE
Reuse cardboard boxes where possible. Plastic padding has been replaced with 100% biodegradable paper packing. All waste (cardboard, pallets etc) is recycled. Warehouse lighting replaced with energy-saving lamps.



PURCHASING
Product is purchased for the whole Starlab group to ensure efficient transportation.



CUSTOMER SERVICE
A 100% paperless office might be an unrealistic goal but we are nearly there! We regularly review and audit internal administrative processes and have digitised nearly all processes to reduce paper use to an absolute minimum.



CARBON OFF-SET DELIVERIES
All deliveries of product to customers undertaken by UPS courier service are carbon off-set.

The TipOne® pipette tip system is still evolving...

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 2015 with two main aims: to update its look, and to save more plastic. Our expertise in manufacturing allowed the new system to take less plastic to manufacture, without compromise to quality. For example, we achieved a 6% reduction of plastic per rack and introduced the sterile refill system that provides a saving of up to 63% less plastic (per pack) compared to the equivalent racked product.

The journey continues. We have been manufacturing the clear plastic packaging components of our refill systems from 100% recycled plastic since July 2023, and July 2024 saw the start of the base of our TipOne® racks being made with 25% recycled plastic.

Stay tuned for more to come!

#EcolutionMovement



BAG
Made from mixed plastic



CLEAR WRAP
Wrap on the refills is made from recyclable LDPE



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



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)

Since July 2023 the lids, spacers and bases of our refills are being made from **100% RECYCLED PLASTIC**

In July 2024 we started to make the blue base of TipOne® racks with **25% RECYCLED PLASTIC**

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 %



RECYCLED PLASTIC
All clear plastic packaging on the refills (bases, lids and spacers) are manufactured from 100 % recycled plastic.

100 %



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

100



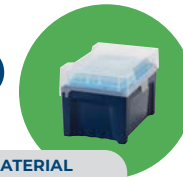
AUTOCCLAVE CYCLES
TipOne® racks are designed to be reused. We have tested them; they can withstand at least 100 autoclave cycles (with wafers inserted) without any loss of shape or quality.

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.

25 %



RECYCLED PLASTIC
From July 2024, the base of TipOne® racks are now being manufactured with 25 % recycled plastic.

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 and 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

Refills are an economical alternative to pre-racked tips. They save on plastic waste, are quick and easy to use, and the tip's cleanliness is not compromised during racking.



RECYCLE

All your polypropylene (PP) TipOne® packaging (no tips). That's the racks, the coloured tip wafers, the clear refill bottom shells, lids and spacers, and the Stack Rack layers and lid. These can all be recycled!



The TipOne® recycling process.

RECYCLING IN ITALY

Starlab currently offers recycling collection schemes in the UK, Germany, Austria and 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.



[WATCH VIDEO](#)

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.

If you want to know more about how polypropylene is recycled, watch our video



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:

Alessandro Ferrarini alessandro.ferrarini@starlab.it
Silvia Angelucci silvia.angelucci@starlab.it



www.mygreenlab.org

More than just tips...

OUR OTHER GREEN PRODUCTS



ErgoOne® PIPETTES

When we think about sustainability, we don't usually think about the pipettes we use. Regular pipette maintenance also contributes to the total plastic waste generated by labs. Pipette spares require raw materials, manufacturing and shipping the same as any other product. Many pipettes have a seal and o-ring with the usual recommendation of annual replacement. ErgoOne® pipettes have a greased system so there is no seal and o-ring to replace. Also, the steel tip cones on ErgoOne® micro models will help reduce the likelihood of breaks and damage often associated with small volume tip cones, further reducing the need for spare parts.



FREEZER RACKING

Optimise the space in your freezer with freezer racking to cut energy use. Optimising storage space in the freezer decreases the space where air can get in when the door is open, which minimises frost build up. Using racks can provide easier access to your samples which will limit door opening times, so less energy is needed to get back to temperature. Efficiently using the space in your freezer could even reduce the number of freezers your lab needs. Starlab's range of high-quality freezer racking is made in Germany with 85% recycled stainless steel, in a factory powered with 100% sustainable energy. Sustainability has never been so cool!



StarGuard® GLOVES

Starlab is reducing our use of natural resources and cutting transport emissions with our StarGuard® range of gloves. Gloves are shipped direct from manufacturing to our warehouse, and shipped in containers without pallets to maximise the quantity of gloves per shipment. Comfort and Sensitive gloves are sold in boxes of 250 and 200 gloves respectively. Shipping and storing more gloves in the same size box as the usual 100 gloves, saves both transport emission and packaging materials.



GuardOne®

GuardOne® workstations were designed with sustainability in mind. Units are flat packed to reduce packaging volume and allow more units to be shipped per pallet. GuardOne® features the latest fan technology and energy-saving LED lighting to provide one of the lowest power consumptions on the market. Long-life consumables (such as the UV lamp) also prevent the cost and waste associated with frequent replacement. Have you ever thought about the cost of a failed PCR? GuardOne® will help protect your samples from cross-contamination and could prevent the time and cost of the extra consumables needed when having to duplicate experiments.



5.0 ml TUBES

Reduce plastic use! 5.0 ml tubes are ideal for those times when 2.0 ml tubes are too small but 15 ml tubes are too big. They can also reduce the amount of space taken up in your freezer so you can store more samples.

[GO TO PRODUCTS](https://www.starlab.click/green-products)

www.starlab.click/green-products

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. 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.



CREATE A GREEN LAB GROUP

Get together with like-minded people in your lab to identify where improvements can be made. Meet with other labs in your institute to swap and share ideas (and empty TipOne® racks!).

BE GOOD, CLOSE THE HOOD!

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 **NEWSROOM** for more tips on greening your lab as well as our articles on sustainability.

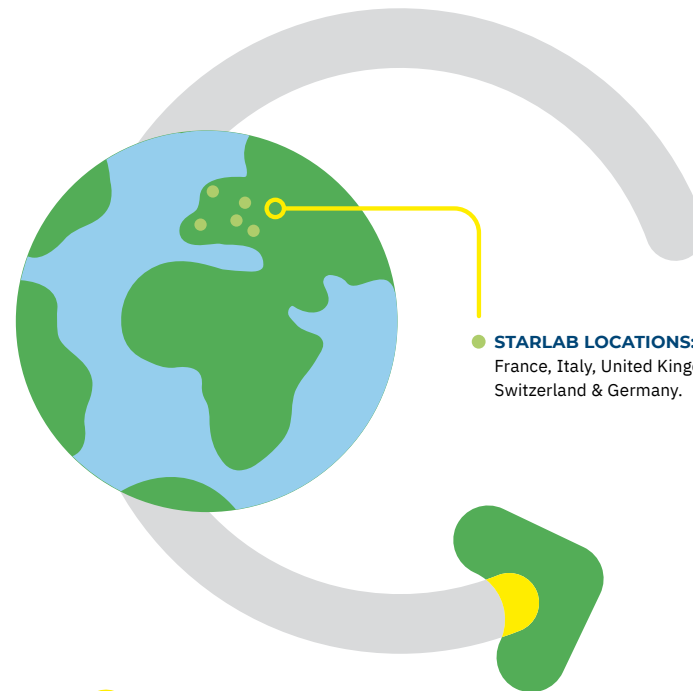
The Starlab Green Team.

THE STARLAB GREEN TEAM

The Green Team comprises members across the Starlab Group. Green Team members are passionate about sustainability and green issues; their role is to research, identify and share ideas for improving Starlab's sustainability ratings, for both our products and our internal processes, and to galvanise sustainability initiatives with other colleagues or with the local or wider communities.

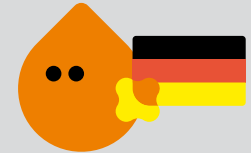
If you would like to discuss ways of making your lab greener, or have a suggestion on how we can improve or help you reach your own sustainable goals, please let us know. Green Team members can consult with individuals or sustainability groups to discuss ideas and hear your suggestions on how Starlab can help you reach your own sustainable goals. Together, we can build a greener future in the lab.

Please contact your Account Manager, or a Green Team member in your country. Alternatively, you can contact the **Starlab Green Officer** at: vanessa.whight@starlab.de

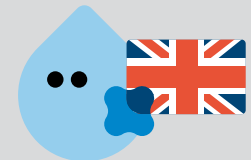


● **STARLAB LOCATIONS:**
France, Italy, United Kingdom,
Switzerland & Germany.

GREEN TEAM CONTACTS



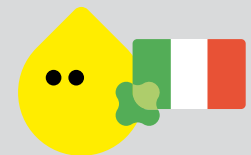
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Environmental concerns, but you Get Green with Starlab. You are passionate for science.

“It is important to focus on what drives us: passion. Our message “You are passionate for science” highlights the passion in our commitment to science. Starlab supports scientists by nurturing their passion. We believe that our combination of scientific excellence and environmental awareness enables us to find solutions to the challenges of tomorrow.”

Klaus Ambos,
CEO Starlab International



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Passionate for science.

 starlab