

making a difference



**YOUR RESULTS -
OUR TIPS**

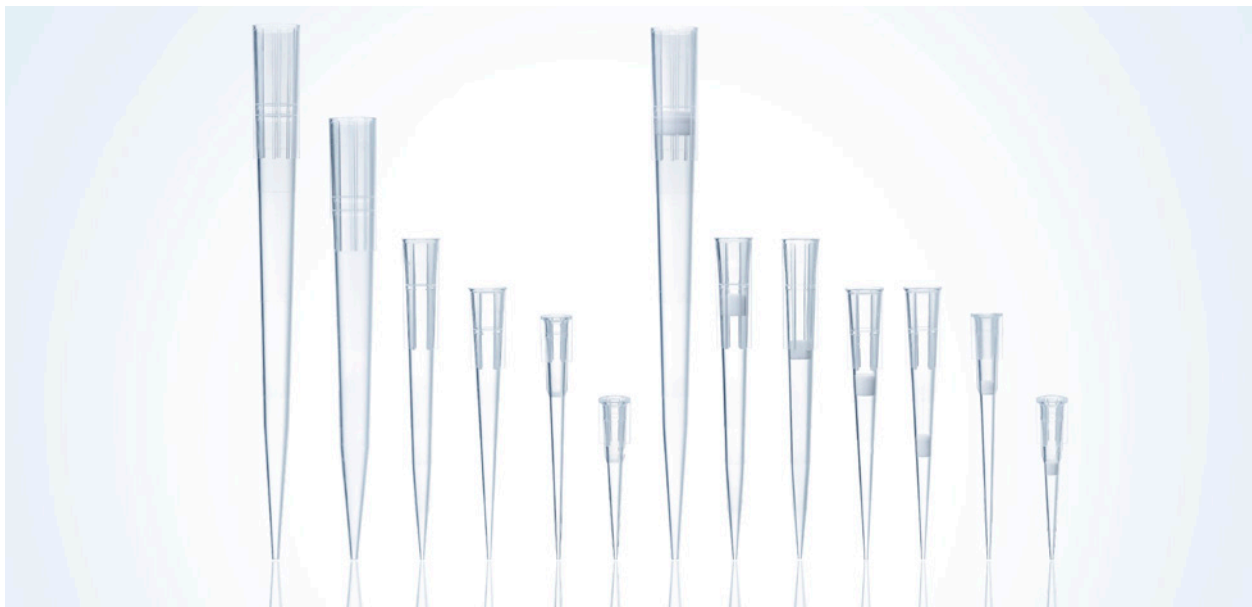
SAPPHIRE

Pipette Tips & Filter Tips


greiner
BIO-ONE

THE SAPPHIRE PORTFOLIO

OPTIMISED LIQUID HANDLING SOLUTIONS FOR ALL YOUR DAILY REQUIREMENTS



We understand that flexibility is critical in terms of modern liquid handling solutions. This is why the Sapphire tips are manufactured in eight different sizes in a **volume range from 10 µl to 1250 µl**, including an extended length 10 µl tip for the recovery of small sample volumes.

All our tips are made of medical grade polypropylene and are available as **standard, low-retention, filter or low-retention filter tips**.

Depending on the format, Sapphire pipette tips are **packed in racks, bulk or refill units**.

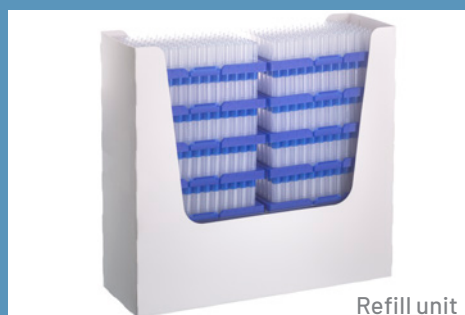
Sapphire tips and pipettes when used together provide a fully **optimised and harmonised** liquid handling solution.



Racked

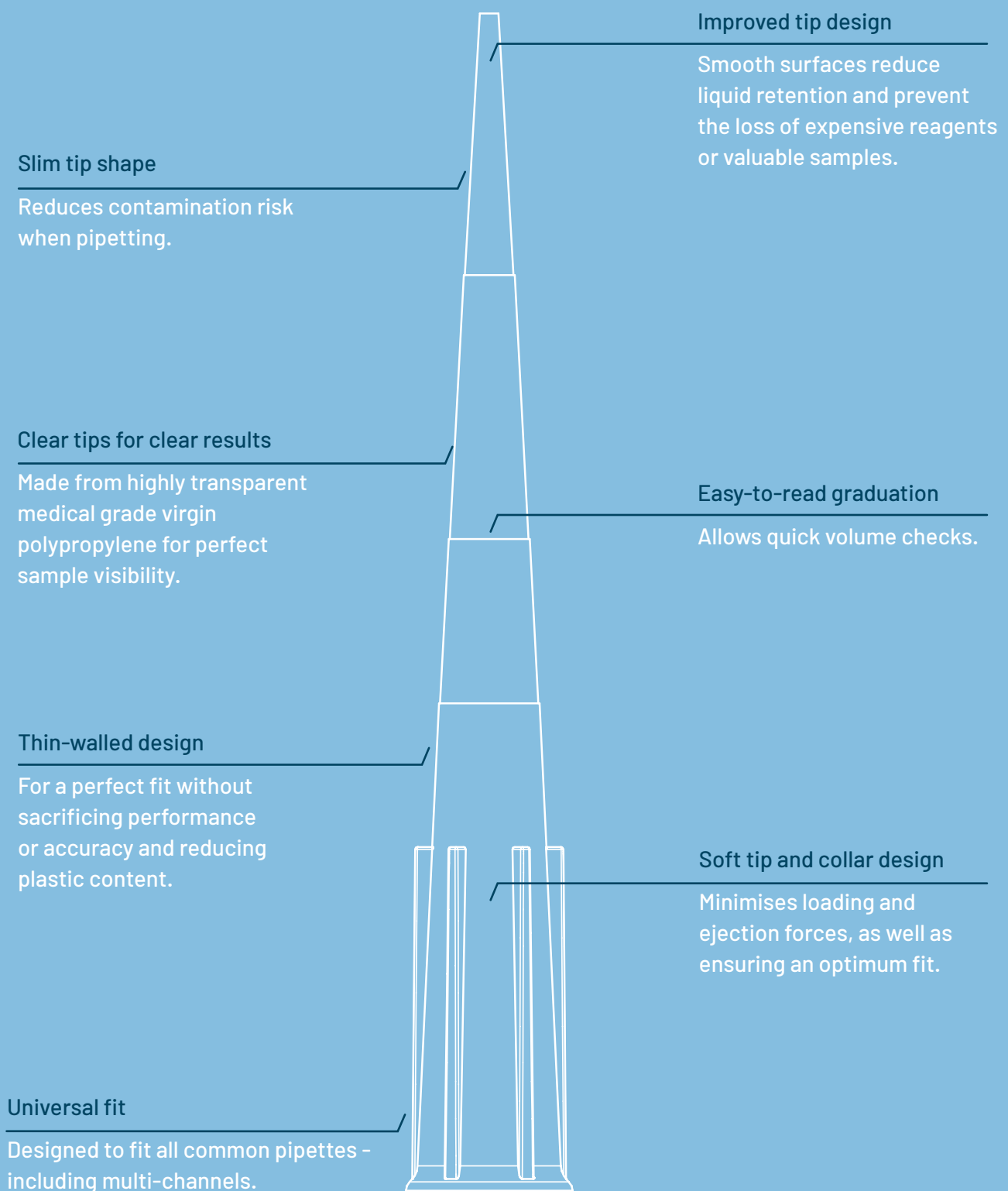


Bulk packed



Refill unit

SAPPHIRE TIPS FEATURES



WHY SAPPHIRE TIPS?

Greiner Bio-One has liquid handling expertise since many decades and has constantly focused on **progress and customer orientation** within this field. As a consequence, we have created a **new generation** of Sapphire pipette tips in a **comprehensive and clear portfolio**.

State-of-the-art production

Our tips are manufactured in our cutting-edge production site in Kremsmünster, Austria. From production to packaging, all steps are **fully automated and integrated in a controlled environment**, which reduces the contamination risk to a minimum.

Low-retention -

Because every drop counts

The Sapphire low-retention surface provides minimised adherence of sample material to the inner tip surface. This is obtained by a special treatment, resulting in highest accuracy even with detergents or other viscous and complex samples.

Filter tips -

Keep it safe!

Sapphire filter tips reliably limit the carry-over of biological material and aerosols without affecting the accuracy of the pipetted volume. The hydrophobic polyethylene filters are manufactured without additives for a self-sealing effect, allowing the entire sample to be recovered if it accidentally comes into contact with the filter.



"With our fully automated production & packaging, we limit the risk of contamination."

All Sapphire Tips are produced in only one quality - the best!

YOUR RESEARCH DESERVES THE BEST QUALITY

All Sapphire tips meet the same high, uniform quality standards regardless of type, surface or shape.

We certify that our products are manufactured and tested in accordance with international standards and meet the required specifications.

ISO 9001
Quality man. systems - Requirements

ISO 8655-6
Piston-operated volumetric apparatus

ISO 10993-5
Biomedical evaluation of medical devices

ISO 11137
Sterilisation of healthcare products

- / Free of detectable DNase, RNase, human DNA and PCR inhibitors
- / Non-pyrogenic and non-cytotoxic
- / Tested for leachables
- / Sterility level of SAL 10⁻⁶
- / Manufactured in the EU and tested in accordance with international standards
- / Fully automated packaging to avoid particle contamination
- / Full traceability

FULL TRACEABILITY

Sophisticated labelling on packaging and product for all Sapphire products

Colour-coded bulk packaging and rack insert with printed specification for user-friendly tip identification and perfect traceability



THREE FORMATS TO COVER ALL YOUR NEEDS

Sapphire is a sophisticated pipette tip system with three different packaging options. All variants are thought through down to the smallest detail and designed to meet your everyday needs and ease your daily routine.

In addition, we offer complete **traceability** for all Sapphire products due to sophisticated product and packaging labels. Moreover, we have put emphasis on **sustainability** at every stage of the planning process.

RACK
with colour-coded
rack insert



PATENT-PENDING RACK

- / **Two rack sizes** cover the whole tip portfolio
- / Available **sterile / non-sterile**
- / Can be **autoclaved** and **reused** more than 50 times
- / **Highly transparent** and **stable** for optimal tip integrity and visibility
- / Stackable and automation-friendly (ANSI external dimensions)
- / **Color-coded** rack inserts for quick volume identification
- / Designed for both **single** and **multi-channel pipettes**
- / Individual packaging for reduced contamination



REFILL UNIT

with lateral
box opening

RESOURCE-FRIENDLY REFILL UNIT

- / Saves precious **time** and **storage space**
- / **Environment-friendly** due to reduction of packaging and rack material
- / Available **sterile / non-sterile**
- / Refill inserts can be **easily changed one-handed**
- / **Lateral box opening** for convenient removal of the refill inserts
- / **Reinforced** refill box base for increased stability
- / **Colour-coded** rack inserts for quick volume identification



BULK PACKAGING

with colour-coded
bag labelling

RESEALABLE BULK PACKAGING

- / **Economic** refilling of our matching Sapphire racks
- / **Easy to open**
- / **Easy to reseal**
- / Available **non-sterile**
- / Tips are **fully autoclavable**
- / **Robust** bag material
- / **Colour-coded** bag labelling for quick volume identification
- / Low risk of entanglement of tips

SAPPHIRE PIPETTES

PIPETTES AND TIPS IN PERFECT HARMONY

Sapphire pipettes are a variable volume range of air-displacement pipettes designed and built to deliver optimal **performance, ergonomics, and robustness** in day-to-day use. The lightweight design coupled with a **state-of-the-art mechanism** reduces pipetting forces and makes our pipettes both **comfortable and easy-to-use**. The contoured body shape allows for a relaxed grip whatever size your hand, and the **3-position tip ejector button** makes pipetting comfortable

for both left-handed and right-handed users.

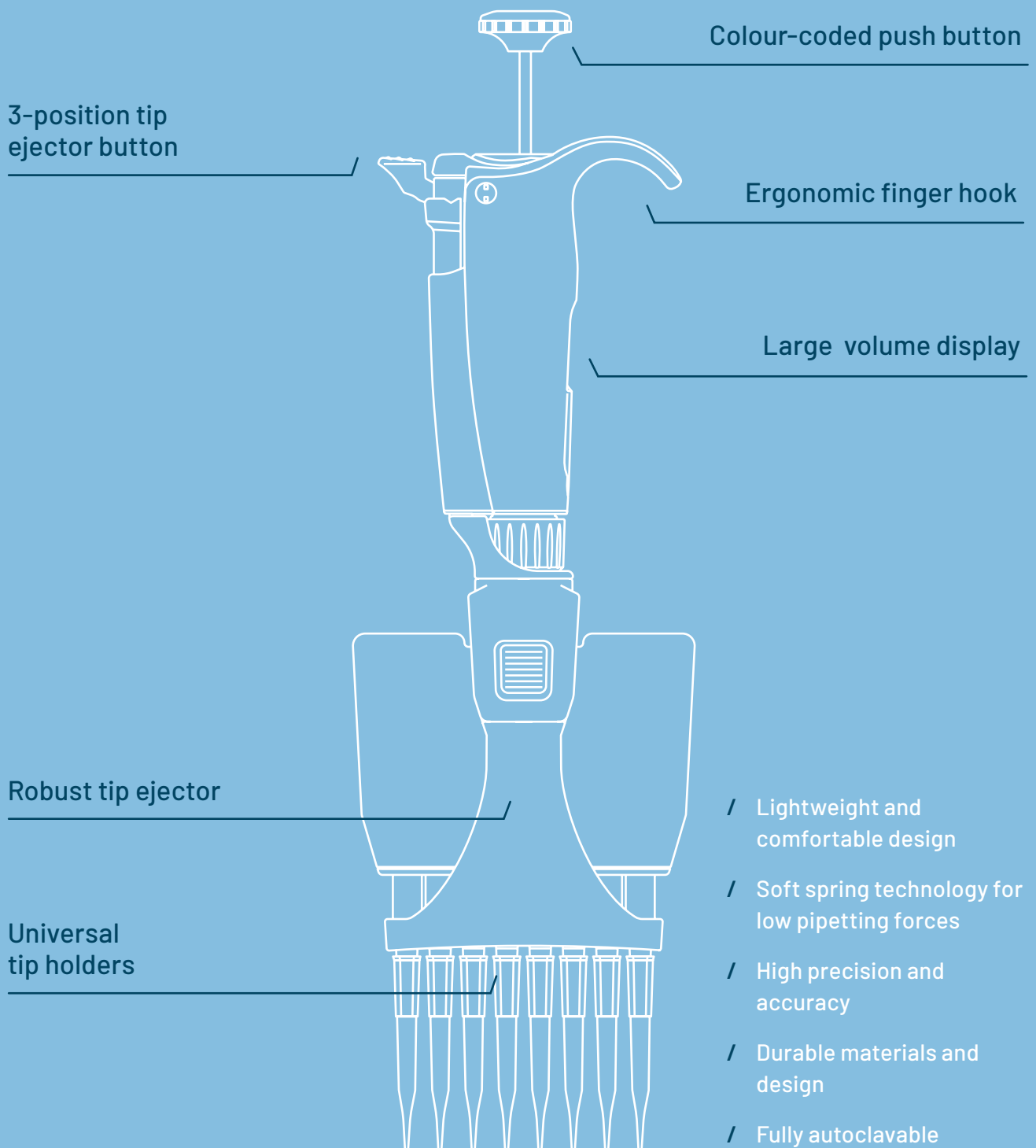
Sapphire pipettes provide an excellent performance within **ISO 8655** which is considered the basis for determining the accuracy and precision of air-displacement pipettes. In combination with Sapphire pipette tips they show one of the lowest error tolerances on the market.

KEY FACTS

- / Optimal performance
- / Outstanding accuracy & precision
- / Ergonomic design & minimal pipetting forces for a new level of comfort
- / Available as single-channel, 8-channel and 12-channel pipettes
- / 3 year warranty



SAPPHIRE PIPETTES FEATURES



PRODUCT OVERVIEW - SAPPHIRE PIPETTE TIPS

10 µl tips

Volume range: 0.2-10 µl; corresponding rack: 770310 (● red insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Standard tip	Racked	10 x 96	771351
	Racked, sterile	10 x 96	771352
	Refill	10 x 96	771354
	Refill, sterile	10 x 96	771355
	Bulk	10 x 1,000	771350
Filter tip	Racked, sterile	10 x 96	771353
Standard tip, low retention	Racked	10 x 96	771361
	Racked, sterile	10 x 96	771362
	Refill	10 x 96	771364
	Refill, sterile	10 x 96	771365
Filter tip, low retention	Racked, sterile	10 x 96	771363

10 µl extended tips

Volume range: 0.5-10 µl; corresponding rack: 770310 (● red insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Standard tip	Racked	10 x 96	772351
	Racked, sterile	10 x 96	772352
	Refill	10 x 96	772354
	Refill, sterile	10 x 96	772355
	Bulk	5 x 1,000	772350
Filter tip	Racked, sterile	10 x 96	772353
Standard tip, low retention	Racked	10 x 96	772361
	Racked, sterile	10 x 96	772362
	Refill	10 x 96	772364
	Refill, sterile	10 x 96	772365
Filter tip, low retention	Racked, sterile	10 x 96	772363

20 µl tips

Volume range: 2-20 µl (● orange insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Filter tip	Racked, sterile	10 x 96	773353
Filter tip, low retention	Racked, sterile	10 x 96	773363

100 µl tips

Volume range: 2-100 µl (● dark yellow insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Filter tip	Racked, sterile	10 x 96	774353
Filter tip, low retention	Racked, sterile	10 x 96	774363

200 µl tips

Volume range: 5-200 µl; corresponding rack: 770320 (● yellow insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Standard tip	Racked	10 x 96	775351
	Racked, sterile	10 x 96	775352
	Refill	10 x 96	775354
	Refill, sterile	10 x 96	775355
	Bulk	15 x 1,000	775350
Filter tip	Racked, sterile	10 x 96	775353
Standard tip, low retention	Racked	10 x 96	775361
	Racked, sterile	10 x 96	775362
	Refill	10 x 96	775364
	Refill, sterile	10 x 96	775365
	Filter tip, low retention	Racked, sterile	10 x 96

300 µl tips

Volume range: 10-300 µl; corresponding rack: 770330 (● green insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Standard tip	Racked	10 x 96	776351
	Racked, sterile	10 x 96	776352
	Refill	10 x 96	776354
	Refill, sterile	10 x 96	776355
	Bulk	10 x 1,000	776350
Filter tip	Racked, sterile	10 x 96	776353
Standard tip, low retention	Racked	10 x 96	776361
	Racked, sterile	10 x 96	776362
	Refill	10 x 96	776364
	Refill, sterile	10 x 96	776365
	Filter tip, low retention	Racked, sterile	10 x 96

PRODUCT OVERVIEW - SAPPHIRE PIPETTE TIPS

1000 µl tips

Volume range: 50-1000 µl; corresponding rack: 770340 (● blue insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Standard tip	Racked	10 x 96	777351
	Racked, sterile	10 x 96	777352
	Refill	10 x 96	777354
	Refill, sterile	10 x 96	777355
	Bulk	5 x 1,000	777350
Standard tip, low retention	Racked	10 x 96	777361
	Racked, sterile	10 x 96	777362
	Refill	10 x 96	777364
	Refill, sterile	10 x 96	777365

1250 µl tips

Volume range: 50-1250 µl; corresponding rack: 770340 (● blue insert)



Tip version	Packaging option	Quantity [pcs.]	Item No.
Standard tip	Racked	10 x 96	778351
	Racked, sterile	10 x 96	778352
	Refill	10 x 96	778354
	Refill, sterile	10 x 96	778355
	Bulk	5 x 1,000	778350
Filter tip	Racked, sterile	10 x 96	778353
Standard tip, low retention	Racked	10 x 96	778361
	Racked, sterile	10 x 96	778362
	Refill	10 x 96	778364
	Refill, sterile	10 x 96	778365
Filter tip, low retention	Racked, sterile	10 x 96	778363

Empty tip racks

Sapphire tip size [µl]	Rack insert colour	Quantity [pcs.]	Item No.
10	● red	10	770310
200	● yellow	10	770320
300	● green	10	770330
1000 - 1250	● blue	10	770340

PRODUCT OVERVIEW - SAPPHIRE PIPETTES

Single-channel pipettes

Volume range [μ l]	Colour code	Item No.
0.2-2	● orange	89000002
1-10	● red	89000010
2-20	● light yellow	89000020
10-100	● light orange	89000100
20-200	● yellow	89000200
100-1000	● blue	89001000
500-5000	● violet	89000500
1000-10000	● light blue	89010000

8-channel pipettes

Volume range [μ l]	Colour code	Item No.
0.5-10	● red	89000810
2-20	● light yellow	89000820
20-200	● yellow	89008200
20-300	● green	89008300

12-channel pipettes

Volume range [μ l]	Colour code	Item No.
0.5-10	● red	89001210
2-20	● light yellow	89001220
20-200	● yellow	89012200
20-300	● green	89012300

SUSTAINABILITY



Sustainability-oriented product design
reducing the consumption of raw materials



Convenient bulk and refill options that significantly
save packaging and storage space



Sapphire racks are **autoclavable** at least **50 times** without
any negative impact on product integrity



Sapphire rack inserts are made of **recycled raw material**



Sapphire **cardboard packaging** made of **recycled material**



Optimised injection moulding plant **reduces our carbon
footprint by 61 tons of CO₂ annually**¹

¹ Kommalkredit Public Consulting

>> Did you know that the lightweight but robust design of our tips can save up to 253 kg of polypropylene per year in an average research institute with 10 research groups? <<

RESPONSIBLE LIQUID HANDLING

For more than 150 years, we have been an organisation with bold ambitions: to inspire others, create added value for our customers and have a positive impact on our environment and our society. Our sustainability strategy, **Blue Plan**, maps out how we can make this vision a reality.

Blue Plan encompasses all parts of our company around the world. It focuses on three major priority areas, which we have identified as key issues that will shape Greiner's future: climate change, creating a circular business, and people.

With our Sapphire product range, we have created a **more sustainable brand** which uses less raw materials and incorporates environmentally friendly packaging.

With these features and our wider sustainability goals, we aim to help your organisation meet its own environmental objectives.

UNCOMPROMISING QUALITY BUT WITH LESS PLASTIC

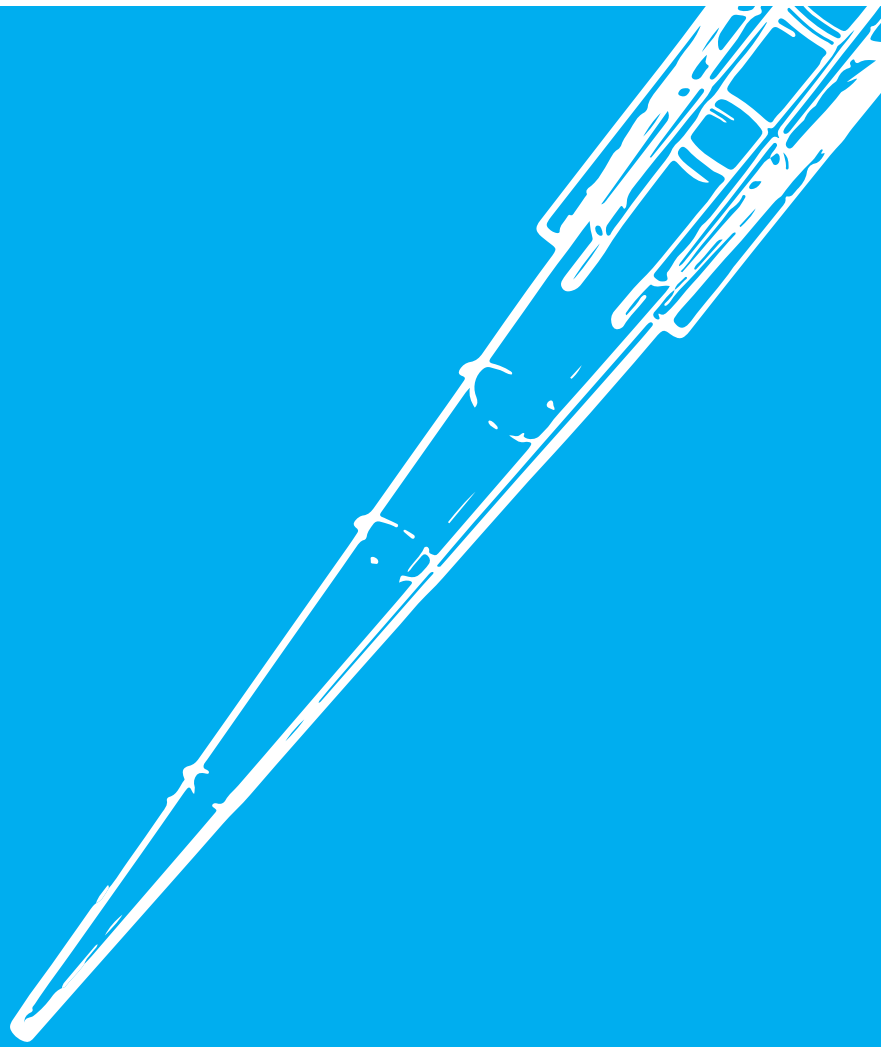
- / Less weight to make your daily pipetting routine easier and more comfortable
- / Significantly less raw material (PP) than many competitors
- / Supports sustainability initiatives

DISCOVER MORE ABOUT BLUE PLAN

<https://www.greiner.com/en/greiner-ag/sustainability/>



making a difference



www.gbo.com

GREINER BIO-ONE LTD
STONEHOUSE, GLOS, UK

PHONE 01453 825255
FAX 01453 826266
E-MAIL info.uk@gbo.com



GREINER BIO-ONE IS A GLOBAL PLAYER.
FIND THE CONTACT DETAILS OF YOUR
LOCAL PARTNER ON OUR WEBSITE.



Devices of Greiner Bio-One are to be used by properly qualified persons only in accordance with the relevant Instructions for Use (IFU), where applicable. For more information contact your local Greiner Bio-One sales representative or visit our website (www.gbo.com).

All information is provided without guarantee despite careful processing. Any liability, warranty or guarantee of Greiner Bio-One GmbH is excluded. All rights, errors and changes are reserved. If not stated otherwise, Greiner Bio-One GmbH has all copyrights and/or other (user-)rights in this documents, in particular to signs such as the mentioned (word-picture-)brands and logos. Any use, duplication or any other use of the rights of Greiner Bio-One GmbH is expressly prohibited.
Media owner: Greiner Bio-One GmbH / Represented by Managing Directors Jakob Breuer and Heinz Schmid. The company is registered in the Commercial Register at the first instance court in Stuttgart, HRB 224604 / VAT Number: DE812585719.

F074019UKen [rev. 11.2021]


greiner
BIO-ONE