



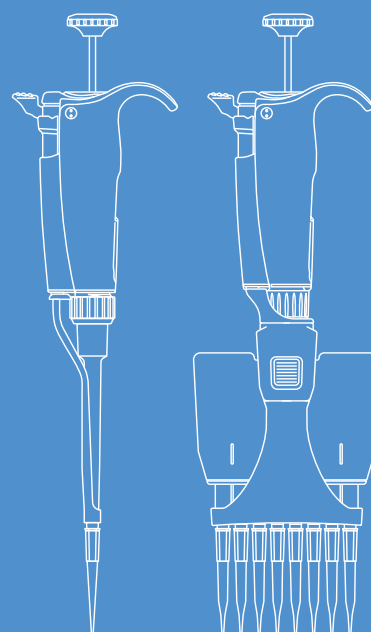
greiner bio-one

Your **Power** for Health



# Sapphire Pipettes

Your Power for Liquid Handling



HUBERLAB. AG  
Industriestrasse 123  
4147 Aesch

T 061 717 99 77  
F 061 711 93 42

[www.huberlab.ch](http://www.huberlab.ch)  
[info@huberlab.ch](mailto:info@huberlab.ch)

**HUBERLAB.**

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# Greiner Bio-One – Your Power for Liquid Handling



# Sapphire Pipettes

## Optimum Ergonomics and Performance

Sapphire Pipettes by Greiner Bio-One combine state-of-the-art engineering and design in the ultimate instrument for modern liquid handling.

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 special 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.

Precision and accuracy is taken as read, with the Sapphire Pipettes performing well within the requirements specified in ISO 8655 forming the optimum solution for liquid handling when used in combination with pipette tips from Greiner Bio-One.

### Each pipette:

- ✓ **Has a unique serial number**
- ✓ **Is fully autoclavable**
- ✓ **Comes with a 3 year warranty**

## The Sapphire Portfolio

### Best Solutions for Your Demands

- ✓ **8 single-channel models with a volume range from 0.2µl up to 10ml**
- ✓ **8 multi-channel pipettes (8-channel and 12-channel) with a volume range from 0.5µl up to 300µl**

An additional feature of the multi-channel pipette is the 360° rotational head giving the freedom to work in the most ergonomic position.

### Key Facts

- ✓ Ergonomic design for optimum comfort
- ✓ Lightweight
- ✓ Minimal pipetting forces
- ✓ Outstanding accuracy and precision
- ✓ Fully autoclavable
- ✓ Robust
- ✓ Greiner Bio-One range of tips



# Sapphire – Ergonomic & Convenient

- ✓ Lightweight, comfortable design
- ✓ Soft-spring technology for low pipetting forces
- ✓ Perfect shape for small and large hands alike
- ✓ 3-position tip ejector for both left-hand and right-hand users
- ✓ Long finger hook for a relaxed grip in all hand sizes
- ✓ 360° adjustable head for multi-channel pipettes to allow work in every position

# Sapphire – Accurate & Precise

- ✓ Large display for easy volume identification
- ✓ Freely rotating push button to adjust the volume and to avoid accidental volume changes
- ✓ High precision and accuracy
- ✓ Optimal performance with Greiner Bio-One Pipette Tips
- ✓ Compatible with other manufacturers' tips

# Sapphire – Resistant & Reliable

- ✓ Durable materials and design
- ✓ UV-resistance over extended periods
- ✓ Fully autoclavable
- ✓ Unique serial number for easy tracking

stainless steel ejector

universal tip holder



# Sapphire Pipettes

## Product Features



**ISO8655**  
COMPLIANT

 **UV  
RESISTANT**

 **FULLY  
AUTOCLAVABLE**

# Sapphire Pipettes

## Performance Data

The Sapphire Pipettes perform within ISO 8655 which is considered the basis for determining the accuracy and precision of air-displacement pipettes.

The Sapphire Pipettes have one of the lowest error tolerances on the market. Test results are generated using Greiner Bio-One Pipette Tips.

### Single-Channel Pipettes

Model	Volume range [ $\mu$ l]	Volume [ $\mu$ l]	Sapphire Pipette Specifications				ISO 8655 Specifications			
			Systematic error		Random error		Systematic error		Random error	
			[ $\mu$ l]	[%]	[ $\mu$ l]	[%]	[ $\mu$ l]	[%]	[ $\mu$ l]	[%]
1 x 2	0.2–2	0.2	$\pm 0.026$	$\pm 13.2$	$\leq 0.013$	$\leq 6.6$	$\pm 0.080$	$\pm 40.0$	$\leq 0.040$	$\leq 20.0$
		2	$\pm 0.033$	$\pm 1.7$	$\leq 0.015$	$\leq 0.8$	$\pm 0.080$	$\pm 4.0$	$\leq 0.040$	$\leq 2.0$
1 x 10	1–10	1	$\pm 0.028$	$\pm 2.8$	$\leq 0.013$	$\leq 1.3$	$\pm 0.120$	$\pm 12.0$	$\leq 0.080$	$\leq 8.0$
		10	$\pm 0.110$	$\pm 1.1$	$\leq 0.044$	$\leq 0.4$	$\pm 0.120$	$\pm 1.2$	$\leq 0.080$	$\leq 0.8$
1 x 20	2–20	2	$\pm 0.11$	$\pm 5.5$	$\leq 0.033$	$\leq 1.7$	$\pm 0.20$	$\pm 10.0$	$\leq 0.100$	$\leq 5.0$
		20	$\pm 0.20$	$\pm 1.0$	$\leq 0.066$	$\leq 0.3$	$\pm 0.20$	$\pm 1.0$	$\leq 0.100$	$\leq 0.5$
1 x 100	10–100	10	$\pm 0.39$	$\pm 3.9$	$\leq 0.11$	$\leq 1.1$	$\pm 0.80$	$\pm 8.0$	$\leq 0.30$	$\leq 3.0$
		100	$\pm 0.80$	$\pm 0.8$	$\leq 0.17$	$\leq 0.2$	$\pm 0.80$	$\pm 0.8$	$\leq 0.30$	$\leq 0.3$
1 x 200	20–200	20	$\pm 0.55$	$\pm 2.8$	$\leq 0.22$	$\leq 1.1$	$\pm 1.60$	$\pm 8.0$	$\leq 0.60$	$\leq 3.0$
		200	$\pm 1.60$	$\pm 0.8$	$\leq 0.33$	$\leq 0.2$	$\pm 1.60$	$\pm 0.8$	$\leq 0.60$	$\leq 0.3$
1 x 1000	100–1000	100	$\pm 3.3$	$\pm 3.3$	$\leq 0.7$	$\leq 0.7$	$\pm 8.0$	$\pm 8.0$	$\leq 3.0$	$\leq 3.0$
		1000	$\pm 8.0$	$\pm 0.8$	$\leq 1.7$	$\leq 0.2$	$\pm 8.0$	$\pm 0.8$	$\leq 3.0$	$\leq 0.3$
1 x 5000	500–5000	500	$\pm 13$	$\pm 2.6$	$\leq 3.3$	$\leq 0.7$	$\pm 40$	$\pm 8.0$	$\leq 15$	$\leq 3.0$
		5000	$\pm 33$	$\pm 0.7$	$\leq 8.8$	$\leq 0.2$	$\pm 40$	$\pm 0.8$	$\leq 15$	$\leq 0.3$
1 x 10000	1000–10000	1000	$\pm 33$	$\pm 3.3$	$\leq 6.6$	$\leq 0.7$	$\pm 60$	$\pm 6.0$	$\leq 30$	$\leq 3.0$
		10000	$\pm 60$	$\pm 0.6$	$\leq 17.6$	$\leq 0.2$	$\pm 60$	$\pm 0.6$	$\leq 30$	$\leq 0.3$

### Multi-Channel Pipettes

Model	Volume range [ $\mu$ l]	Volume [ $\mu$ l]	Sapphire Pipette Specifications				ISO 8655 Specifications			
			Systematic error		Random error		Systematic error		Random error	
			[ $\mu$ l]	[%]	[ $\mu$ l]	[%]	[ $\mu$ l]	[%]	[ $\mu$ l]	[%]
8 x 10	0.5–10	0.5	$\pm 0.09$	$\pm 17.6$	$\leq 0.04$	$\leq 8.8$	$\pm 0.24$	$\pm 48.0$	$\leq 0.16$	$\leq 32.0$
12 x 10		10	$\pm 0.22$	$\pm 2.2$	$\leq 0.11$	$\leq 1.1$	$\pm 0.24$	$\pm 2.4$	$\leq 0.16$	$\leq 1.6$
8 x 20	2–20	2	$\pm 0.11$	$\pm 5.5$	$\leq 0.09$	$\leq 4.4$	$\pm 0.40$	$\pm 20.0$	$\leq 0.20$	$\leq 10.0$
12 x 20		20	$\pm 0.40$	$\pm 2.0$	$\leq 0.17$	$\leq 0.8$	$\pm 0.40$	$\pm 2.0$	$\leq 0.20$	$\leq 1.0$
8 x 200	20–200	20	$\pm 0.6$	$\pm 2.8$	$\leq 0.28$	$\leq 1.4$	$\pm 3.2$	$\pm 16.0$	$\leq 1.20$	$\leq 6.0$
12 x 200		200	$\pm 2.2$	$\pm 1.1$	$\leq 0.55$	$\leq 0.3$	$\pm 3.2$	$\pm 1.6$	$\leq 1.20$	$\leq 0.6$
8 x 300	30–300	30	$\pm 1.1$	$\pm 3.7$	$\leq 0.39$	$\leq 1.3$	$\pm 8.0$	$\pm 26.7$	$\leq 3.00$	$\leq 10.0$
12 x 300		300	$\pm 3.3$	$\pm 1.1$	$\leq 1.10$	$\leq 0.4$	$\pm 8.0$	$\pm 2.7$	$\leq 3.00$	$\leq 1.0$



# Ordering Information

Description	Volume range [µl]	Colour code	Order no.
<b>Single-Channel Pipettes</b>	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
<b>8-Channel Pipettes</b>	0.5–10	● red	89000810
	2–20	● light yellow	89000820
	20–200	● yellow	89008200
	20–300	● green	89008300
<b>12-Channel Pipettes</b>	0.5–10	● red	89001210
	2–20	● light yellow	89001220
	20–200	● yellow	89012200
	20–300	● green	89012300

For matching Greiner Bio-One Pipette Tips, please visit [www.gbo.com](http://www.gbo.com)

## Accessories

Description	Colour code	Order no.
<b>Carrousel Pipette Holder</b>	–	89000099
<b>ID Clip for Sapphire Pipette, 10 pcs./carton</b>	○ white	89019801
	● red	89019803
	● blue	89019804
	● green	89019805
	● yellow	89019806
	assorted	89019809

Have a closer look at our  
Sapphire Pipettes



## Service & Maintenance

We recommend that pipettes are serviced and calibrated annually by an authorised service provider. Please contact your local Greiner Bio-One representative for servicing options.

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