



Tacta®

Mechanical Pipettes

Product Information

Tacta® is a premium mechanical pipette featuring superb comfort and reliability. Designed with comfort in mind, Tacta® makes pipetting effortless and safe, while producing accurate and reliable results time after time. Tacta® is made from carefully selected materials, with each component designed to meet the highest standards.



Description

Tacta® is a premium mechanical pipette available in volume range from 0.1 to 10 000 µl in single channel models, and from 0.5 µl to 300 µl in multichannel models.

Features

- Low pipetting cycle forces reduce the risk of WRULD (Work Related Upper Limb Disorder)
- Ergonomic design for comfortable pipetting
- Optiload feature in both single and multichannel models for easy and light tip loading with perfect tip sealing
- Optiject soft tip ejection feature detaches the tip in a smooth, controlled manner
- Optilock's dual-function volume locking prevents accidental volume changes
- Easy-to-read, four-digit volume display helps to set exact volumes

- Colour-coding of volumes to ease the selection of corresponding pipette tips
- Safe-Cone Filters available for models above 10 µl with convenient built-in filter ejection mechanism
- Fully autoclavable without disassembling
- Simple to clean and maintain with only three parts to disassemble
- Easy calibration adjustment with adjustment scale ensures accurate results, also in cases where factory calibration does not apply, for example when pipetting viscous liquids
- Materials have high chemical and UV-resistance to ensure a long life span for the pipette

Intended Use

Manual liquid-handling of volumes ranging from 0.1 µl to 10 ml.



Technical Data

Technical Specifications

Weight	79 g (1-ch, 1000 µl) 138 g (8-ch, 300 µl)
Length	225 mm (1-ch, 1000 µl) 240 mm (8-ch, 300 µl)
Autoclavability	Fully autoclavable (121°C, 20 min, 1 bar/100 kPa)
UV-resistance	UV resistance: Tacta® pipettes are made of UV-resistant materials. Sartorius pipettes tolerate temporary exposure to UV radiation. Take note that prolonged or frequent exposure to UV radiation may cause yellowing and brittling of the pipette.
Pipetting principle	Air displacement
Pipetting modes	Pipetting (P) Reverse pipetting (rP) Post-delivery mixing

Stand options	Carousel Stand for 6 pipettes Linear Stand Pipette Holder for one pipette (included in the pipette package)
Safe-Cone Filter ejector	Built-in ejector
Limitations	The accuracy and precision values are valid under the controlled conditions described in ISO 8655. Test temperature: +15°C to +30°C +/-0.5°C Relative humidity: >50%
Instrument use outside +20°C to +25°C	When using instruments outside this temperature range, the correction factor for water density (Z-value µl/mg) must be used.
Transportation conditions	Temperature: -50°C to +50°C Humidity: 10-90% Shocks: <10 G
Long-term storage conditions	Temperature: -20°C to +40°C Humidity: 10-60%
Warranty	2 years

Volume Adjustment

The calibration of Tacta® is based on ISO 8655-6: gravimetric test method for volumetric instruments. It has been factory-checked using the forward-pipetting technique and certified according to ISO 3696 at 22°C using grade-3 distilled water.

The pipette calibration should be adjusted when necessary, for example when reverse pipetting, when pipetting liquids other than water, when using the pipette at high altitudes, or when the geometry of the tip you use clearly differs from standard tip geometry.

For accurate adjustment results, please refer to the table below.

Volume Adjustment

Model [µl]	Channels	Increment [µl]	-45	-10	-5	-1	0	1	5	10	45
0.1-3	1	0.002	-0.9	-0.02	-0.01	-0.002	0	0.002	0.01	0.02	0.9
0.5-10	1	0.01	-0.45	-0.1	-0.05	-0.01	0	0.01	0.05	0.1	0.45
2-20	1	0.02	-0.9	-0.2	-0.1	-0.02	0	0.02	0.1	0.2	0.9
10-100	1	0.1	-4.5	-1	-0.5	-0.1	0	0.1	0.5	1	4.5
20-200	1	0.2	-9	-2	-1	-0.2	0	0.2	1	2	9
100-1000	1	1	-45	-10	-5	-1	0	1	5	10	45
500-5000	1	5	-225	-50	-25	-5	0	5	25	50	225
1000-10000	1	10	-450	-100	-50	-10	0	10	50	100	450
0.5-10	8 & 12	0.01	-0.45	-0.1	-0.05	-0.01	0	0.01	0.05	0.1	0.45
5-100	8 & 12	0.1	-4.5	-1	-0.5	-0.1	0	0.1	0.5	1	4.5
30-300	8 & 12	0.2	-9	-2	-1	-0.2	0	0.2	1	2	9

Ordering Information

Order Code	Channels	Volume Range [μl]	Colour Coding	Increment [μl]	Test Volume [μl]	Systematic Error* [%]	Random Error* [%]
Tacta®							
LH-729010	1	0.1-3	●	0.002	3 1.5 0.3	1.30 2.40 10.00	0.80 1.60 6.00
LH-729020	1	0.5-10	●	0.01	10 5 1	1.00 1.50 2.50	0.60 1.00 1.50
LH-729030	1	2-20	●	0.02	20 10 2	0.90 1.20 3.00	0.40 1.00 2.00
LH-729050	1	10-100	●	0.10	100 50 10	0.80 1.00 2.00	0.15 0.40 1.00
LH-729060	1	20-200	●	0.20	200 100 20	0.60 0.80 2.30	0.15 0.30 0.90
LH-729070	1	100-1000	●	1.00	1000 500 100	0.70 0.70 2.00	0.20 0.20 0.50
LH-729080	1	500-5000	●	10.0	5000 2500 500	0.50 0.60 2.00	0.20 0.30 0.60
LH-729090	1	1000-10000	●	20.0	10000 5000 1000	0.60 1.20 3.00	0.20 0.30 0.60
LH-729120	8	0.5-10	●	0.01	10 5 1	1.50 2.50 4.00	1.00 2.50 4.00
LH-729130	8	5-100	●	0.10	100 50 10	0.70 1.00 3.00	0.25 0.70 1.50
LH-729140	8	30-300	●	0.20	300 150 30	0.60 1.00 2.00	0.25 0.50 1.00
LH-729220	12	0.5-10	●	0.01	10 5 1	1.50 2.50 4.00	1.00 2.50 4.00
LH-729230	12	5-100	●	0.20	100 50 10	0.70 1.00 3.00	0.25 0.70 1.50
LH-729240	12	30-300	●	0.20	300 150 30	0.60 1.00 2.00	0.25 0.50 1.00

* The listed systematic and random error values are only valid for pipetting mode and are achieved under strictly controlled conditions during type tests as per ISO 8655.

Due to our continuous product development, the systematic and random error values may change without prior notice.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

www.wolflabs.co.uk

Tel : 01759 301142

Fax : 01759 301143

sales@wolflabs.co.uk

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