

ДИАМ
современная лаборатория

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Автоматические пипетки 10-100-1000 мкл



руководство по эксплуатации

V. 1.0

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**QUALITY CONTROL CERTIFICATE
QUALITÄTSKONTROLIZERTIFIKAT
CERTIFICAT DE CONTRÔLE/QUALITÉ
CERTIFICADO DE CONTROL DE CALIDAD
CERTIFICATO DI CONTROLLO QUALITÀ**

All Glassco Digital Micropipettes are warranted to be free from defects in materials and workmanship for a period of 1 year from the date of purchase. Your product will be duly repaired upon prompt notification in compliance with the following conditions:

Defects or damages caused by physical and/or chemical abuse or normal wear and tear or resulting from the Micropipette being used in any manner other than as instructed in the manual are not covered by the warranty. The warranty is invalidated by non factory modification, which will immediately terminate all liabilities on the manufacturer for the product or damages caused by its use.

The buyer shall be responsible for the product or use of products as well as any supervision required for safety. Routine cleaning and recalibration are not covered under the terms of warranty.

If requested the product must be returned to the local distributor in well packed and insured manner. All shipping charges must be paid

Digital Micropipettes fulfil following International Standards:
International Organization for Standardisation ISO 8655, part 1-6
European Committee for Standardisation CEN EN ISO 8655
German Institute for Standardisation DIN 12850

Cat No.	Vol. Range	Increments	Color
500.303.01	0.1 - 2.5 µl	0.01 µl	Pink
500.303.02	0.5 - 10 µl	0.1 µl	Purple
500.303.03	2 - 20 µl	0.1 µl	Green
500.303.04	5 - 50 µl	0.5 µl	Red
500.303.05	10 - 100 µl	0.5 µl	Orange
500.303.06	50 - 200 µl	1.0 µl	Yellow
500.303.07	20 - 200 µl	1.0 µl	Yellow
500.303.08	100 - 1000 µl	0.5 µl	Blue
500.303.09	200 - 1000 µl	0.5 µl	Blue
500.303.10	500 - 5000 µl	50.0 µl	Dark Grey
500.303.11	1000 - 5000 µl	50.0 µl	Dark Grey
500.303.12	500 - 10000 µl	100 µl	Grey
500.303.13	1000 - 10000 µl	100 µl	Grey

501.303.01	2.5 µl	-	Pink
501.303.02	5 µl	-	Orange
501.303.03	10 µl	-	Orange
501.303.04	20 µl	-	Orange
501.303.04	25 µl	-	Orange
501.303.06	50 µl	-	Red
501.303.07	100 µl	-	Yellow
501.303.08	200 µl	-	Yellow
501.303.09	250 µl	-	Blue
501.303.10	500 µl	-	Blue
501.303.11	1000 µl	-	Blue
501.303.12	2000 µl	-	Dark Grey
501.303.13	5000 µl	-	Dark Grey
501.303.14	10000 µl	-	Dark Grey

Instrucrion Manual

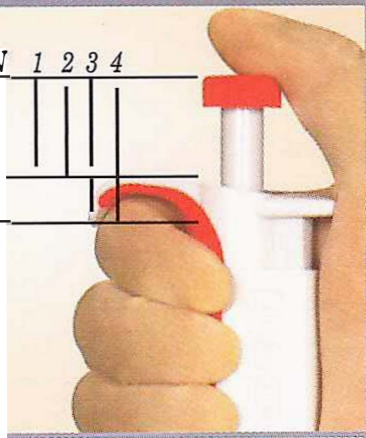
- 1. General Information :** Your new digital Micropipettes are available as fixed or variable piston-operated pipettors for the accurate and precise sampling and dispensing of liquid volumes. They operate on the air displacement principle and are produced and tested according to EN ISO 8655, their conformity and quality are documented through the German H-Sign DIN Standard 12600 under the control of the Thuringian State Office of Verification. The standards used for production and measurements are traceable to the national standards of the Federal Republic of Germany at the Physikalisch-Technische Bundesanstalt (PTB).
- 2. Unpacking :** Your new Digital Micropipette contains the following items: Digital Micropipette, Calibration/Serviceing tool. Instruction manual, Silicon grease, Tips, Performance certificate according ISO 8655
- 3. Volume setting :** The volume of the Micropipette is shown through the handle grip window. On variable pipettes, the delivery volume is set by turning the thumb button clockwise or anticlockwise. Using excessive force to turn the push button outside the range may jam the mechanism and damage the pipette.
- 4. Sealing and ejecting tips :** Before fitting a tips make sure that the tip cone is clean. Press the tip firmly onto the cone to ensure an airtight seal. Your new Micropipette is fitted with a tip ejector to help eliminate the safety hazards associated with contamination. The tip ejector needs to be pressed downwards to ensure proper tip ejection.
- 5. Forward pipetting for standard liquids :** Depress the operating button to the first stop. Dip the tip just under the liquid surface (2-3 mm) and smoothly release the operating button. Withdraw the tip from the liquid, touching against the edge of the reservoir to remove excess liquid. Dispense the liquid by gently pressing the operating button to the first stop. After a short delay press the button to the second stop. This blow-out will empty the tip completely and ensure accurate pipetting. Release the button to the ready position.
- 6. Reverse pipetting for high viscosity or foaming liquids :** Depress the operating button to the second stop. Dip the tip just under the liquid surface (2-3 mm) and smoothly release the operating button. Withdraw the tip from the liquid, touching against the edge of the reservoir to remove excess liquid. Dispense the liquid by gently pressing the operating button to the first stop. This volume is equal to the set volume. Hold the button in position. The liquid that remains in the tip should not be included in the delivery. The remained liquid should now be discarded with the tip or delivered back into the reservoir.
- 7. Pipetting recommendations :** Use you: Micropipette only when a tip is attached. Hold the pipettor vertically when aspirating and dip the tip only 2-3 mm into the liquid. Pre-rinse the tip 5 times before aspiration by filling and emptying the tip. Always control the push buton movements with the thumb for consistency. Allow liquids, tips and pipettes to equilibrate to the ambient temperature before use.
- 8. Calibration :** Each Micropipette calibration has been factory checked and certified according to EN ISO 8655 and DIN 12650.
- 9. Checking calibration :** Carefully fit tip onto the tip cone. Pre-rinse tip with distilled water by pipetting the selected volume 5 times. Aspirate the liquid. Pipette liquid into a tared container and read the weight in mgs. Repeat at least 10 times and record each result. Use an analytical balance with a readability of 0.01. mgs. Compare the results with the corresponding calibration volume range. Weighting should place at 20-25 °C. Avoid drafts. Distilled water, weighting vessel, pipettor and tips must be at the same temperature. To calculate the volume, divide the weight of the water by its density (at 20°C:0.9982). This method is based on DIN 12650.
- 10. Calibration procedure :** Place the calibration tool into the holes of the calibration adjustment lock (under the thumb button). Turn the adjustment lock anticlockwise to decrease and clockwise to increase the volume. Repeat checking calibration until the pipetting results are correct.
- 11. In-house maintenance :** Hold down the tip ejector. Place the tooth of the opening tool between tip ejector and tip ejector collar to release the locking mechanism. Carefully release the tip ejector and remove the ejector collar. Place the wrench end of the opening tool over the tip cone and turn it anticlockwise. After removing the tip cone, wipe the piston, the O-ring and the tip cone with ethanol and a lint free cloth. Before replacing the tip cone grease the piston slightly using the silicon grease provided. After reassembling use the pipettor several times to make sure that the grease is spread evenly. Check the pipettor calibration.
- 12. Warranty :** Your new Micropipettes are warranted for one year against defects in materials and workmanship. Should it fail to function during any period of time, please contact your local representative immediately. The warranty will not cover defects caused by normal wear or by using the pipettor against the instructions given in this manual.

Forward Pipetting

READY POSITION 1 2 3 4

FIRST STOP

SECOND STOP

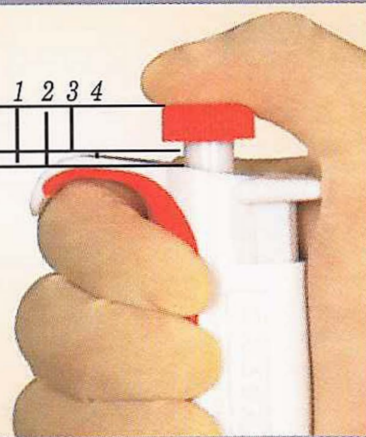


Reverse Pipetting

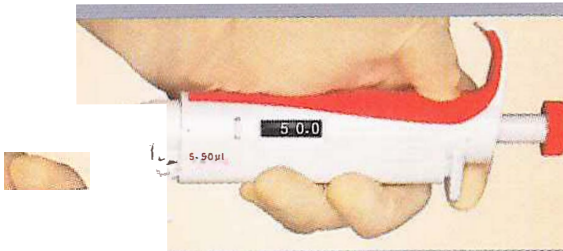
READY POSITION 1 2 3 4

FIRST STOP

SECOND STOP



In-House Maintenance



Recalibration



ISO 9001:2008 Certified Company

Glassco laboratory Equipments Pvt. Ltd.



Medical Devices Directive 93/42/EEC as amended by 2007/47/EC

Or Medical Devices Directive 98/79EC

EDMA code 21.09

PRODUCTS :

Cat No. 500.303.01 to 500.303.13 Variable Micropipette
Cat no. 500.303.14 to 500.303.18 Eight Channel Micropipette
Cat no. 500.303.19 to 500.303.23 Twelve Channel Micropipette
Cat no. 501.303.01 to 501.303.14 Fixed Micropipette

Date : 10th December 2015

Контакты сервисных центров

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