

EASYCAL™ 4.0

EASYCAL™ 4.0 simplifies the tedious task of calibrating liquid handling, glass, and plastic volumetric instruments to ISO 9001 and GLP standards. Easy-to-follow procedures are outlined step-by-step and all calculations are performed automatically by the software. EASYCAL™ 4.0 generates reports to document the calibration; all test records can be saved in a database for subsequent use and tracking of instrument performance.

- **Simplifies Data Entry:** Weighing values may be entered manually into the software or imported directly from the balance via serial port and balance-manufacturer's cable. Manufacturers' standards for BRAND instruments, as well as Eppendorf®, Biohit, and Gilson® pipettes, are included; other tolerance values may be input manually.
- **Organizes All Test Data:** Provides an easy-to-read test record that contains all data on one printable page.
- **Calibrates Small Volume Pipettes:** Using the special EASYCAL™ 4.0 testing tubes, the calibration of pipettes below 50µL is much easier and more cost-effective than dedicated colorimetric systems, moisture traps or costly two-scale balances.
- **Includes SOPs:** SOPs (Standard Operating Procedures) describing testing protocols for volumetric labware and BRAND liquid handling instruments are supplied on the EASYCAL™ 4.0 CD-ROM.



Calibrations without Calculations.



Technical Data

Clearly arranged test record

The test record contains all important test data on one page.

EASYCAL 4.0
Test record

BRAND

<p>Instrument: Transferpette No. 10 µl 1244964 -3</p> <p>Thermometer: Goldbrand No. 1</p> <p>Balance: Sartorius BA No. 3 Relative humidity 50% ± 30%</p> <p>Atmosph. pressure abs(hPa): 1013 Temperature: 22 °C / 71,60 °F</p> <p>Correction factor z: 1,00328</p>	<p>Note</p>
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Results from gravimetric tests: 5 weighings per channel EX

Test volume: 10 µl

Channel-No	1	2	3	4	5	6	7	8	9	10	11	12
X 1 (mg)	9,92	9,99	9,9	9,96	9,87	9,94	9,91	9,91				
X 2 (mg)	9,92	9,99	9,94	9,98	9,9	9,94	9,99	9,93				
X 3 (mg)	9,87	9,95	9,88	9,96	9,89	9,9	9,95	9,87				
X 4 (mg)	9,92	9,98	9,94	9,98	9,92	9,94	9,96	9,97				
X 5 (mg)	9,88	9,9	9,96	9,96	9,92	9,93	9,95	9,94				
X 6 (mg)												
X 7 (mg)												
X 8 (mg)												
X 9 (mg)												
X 10 (mg)												
X Mean (mg)	9,90	9,96	9,92	9,97	9,90	9,93	9,95	9,92				
V Mean (µl)	9,93	9,99	9,96	10,00	9,93	9,96	9,98	9,96				
A(%) Actus	-0,66	-0,05	-0,43	0,01	-0,68	-0,37	-0,15	-0,43				
CV(%) Actus	0,25	0,38	0,33	0,11	0,21	0,17	0,29	0,37				
Result A	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.				
Result CV	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.				

Test volume: 5 µl

Channel-No	1	2	3	4	5	6	7	8	9	10	11	12
X 1 (mg)	5	5,05	5,03	5,04	5,01	5,01	5,05	5,03				
X 2 (mg)	5,02	5,06	5,05	5,05	5,06	5,05	5,02	5,05				
X 3 (mg)	5	5,04	5,03	5,02	5,01	5,01	5,03	5,03				
X 4 (mg)	4,98	5,01	5,01	4,97	5	5,03	5	5				
X 5 (mg)	4,97	5,02	5	4,96	4,96	5	4,99	4,99				
X 6 (mg)												
X 7 (mg)												
X 8 (mg)												
X 9 (mg)												
X 10 (mg)												
X Mean (mg)	4,99	5,04	5,02	5,01	5,01	5,02	5,02	5,02				
V Mean (µl)	5,01	5,05	5,04	5,02	5,02	5,04	5,03	5,04				
A(%) Actual	0,21	1,05	0,81	0,49	0,49	0,73	0,69	0,73				
CV(%) Actus	0,39	0,41	0,39	0,82	0,71	0,40	0,48	0,49				
Result A	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.				
Result CV	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.	i.o.				

The test was carried out accordi ISO 8655

Next test 05.2005

Result: Gravimetric test ok

Test date: 01.02.2005

Test Operator: Andrea Smekal

Signature:

Items supplied

- EASYCAL™ 4.0 software on one CD-ROM (English, French, German, Portuguese and Spanish) for Windows® 95/98, or Windows® NT/2000.
- Installation instructions.
- Operating manual.
- CD-ROM also contains SOPs (English, French, German and Spanish) for Digital Buret™, HandyStep®, HandyStep® electronic, Dispensette®, seripettor®, Transferpette®, Transferpette® -8/-12, and Transferpettor™ from BRAND.

System requirements

- **Recommended:** Processor with 100MHz or better, 32MB RAM, Windows® 98/ME or Windows® NT (SP6/2000/XP), SVGA graphics card with 256 colors, mouse, printer and CD-ROM, Microsoft® Paint.

Demonstration software available

EASYCAL™ 4.0 demonstration software can be downloaded from the BRAND website (www.brand.de) or ordered by calling Customer Service.

Description	Cat. No.	2009 List Price
EASYCAL™ professional calibration software	708440	\$579.00
EASYCAL™ testing tubes for pipettes <50µL, 250 pcs.	708462	29.00

EASYCAL™ 4.0 supports many balances from A&D, Denver, Kern, Ohaus, Precisa, Sartorius, Scaltec, and YMC. Please contact your balance manufacturer for the appropriate interface cable.