

SIGMA 4-5L – High-tech is more quiet

This new instrument has been designed specifically targeting the requirement for high-throughput in clinical applications. Key features include a new motor with high torque for fast acceleration, and the optimized air circulation design for efficient rotor cooling and low noise.

SIGMA 4-5L

No. 10405 (220 – 240 V, 50/60 Hz), No. 10404 (120 V, 60 Hz)

- Table top centrifuge; speed range up to 4.700 rpm
- Control unit Spincontrol L
- Optimized for swing-out applications
- Lid can easily be opened due to pneumatic spring support
- Maximum capacity of 4 x 650 ml down to microtubes with different adapters in the same bucket
- Maintenance-free induction drive motor. A microcontroller controls speed or gravitational field, time
- 2 Motorized lid locks
- Suitable for low speeds e.g. for cell sedimentation, accuracy +/- 1 rpm
- Stainless steel bowl
- Imbalance switch
- No need to open the casing for emergency lid lock release
- Produced according to national and international safety regulations (e.g. IEC 61010)
- Window in the centrifuge lid for external speed control
- Backlight keys for start, stop, lid open
- Delivery incl. rotor 11650, 2 sets buckets 13450, 2 sets caps 17170, BioSafe certificate following EN 61010-2-020

Created during production.	
	Sigma 4-5L
Calibration certificate for speed and time	No. 17714
IQQQ	No. 17710

Temperature increase after 1h runtime	
rpm	°C above ambient temperature
3.000	4
4.000	8
4.700	11

Tube name	Volume (ml)	Fits in Adapter	tubes per adapter	tubes per run
BD				
Vacutainer 13 x 75 mm	1.6 / 1.8 / 2.0 / 2.4 / 2.5 / 2.7 / 3.0 / 3.15 / 3.5 / 4.0 / 4.5 / 4.8 / 5.0 / 5.3	17656	22	88
Vacutainer 13 x 100 mm	4.0 / 4.2 / 4.5 / 5.0 / 5.3 / 6.0 / 7.0	17656	22	88
Vacutainer 16 x 100 mm	2.5 / 6.0 / 8.0 / 8.5 / 9.5 / 10.0 / 11.0	17658	19	76
Vacutainer 16 x 125 mm	8.0	17658	7	28
Greiner				
Vacurette 13 x 75 mm	1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5	17656	22	88
Vacurette 13 x 100 mm	3.5 / 5.0 / 6.0	17656	22	88
Vacurette 16 x 100 mm	7.0 / 8.0 / 9.0	17658	19	76
Sarstedt				
(Specia) S-Monovette	9.0 / 10.0	17658	19	76
(Specia) S-Monovette	7.5 / 8.2 / 8.5	17658	19	76
(Specia) S-Monovette	4.0 / 4.7 / 5.5	17655	20	80
(Specia) S-Monovette	4.5 / 5.0	17652	36	138
(Specia) S-Monovette	4.9 / 5.6	17656	22	88
(Specia) S-Monovette	2.6 / 2.9 / 3.4 / 3.8	17656	22	88
(Specia) S-Monovette	2.0 / 2.7 / 3.0	17652	36	138
S-Monovette	1.1 / 1.2 / 1.4 / 2.0	17652	36	138
Terumo				
Venosafe 13 x 75 mm	1.8 / 2.4 / 2.7 / 3.6 / 4.0 / 5.0 /	17656	22	88
Venosafe 13 x 100 mm	4.5 / 5.5 / 8.1	17654	32	128
Venosafe 16 x 100 mm	6.0 / 8.0 / 9.0 / 10.0	17658	19	76
RIA tube 12 x 75 mm		17652	36	138

4-5L

Rotor No.	max. [min ⁻¹]	max. RCF
11650 + 1 x 13421	4.700	4.001
11650 + 2 x 13450	4.700	4.643

- 11650** Swing-out rotor for 4 buckets no. 13421, 13450
13421 Bucket for microtiter- and deepwellplates, incl. plate holder, max. height = 60 mm, 1 set = 4 pcs.
13450 Round bucket, sealable with cap no. 17170, for adapters, (no. 17649 - 17699, 13654), 1 set = 2 pcs.

Adapter for bucket 13450, 1 set = 2 pcs.

- 17653** 26 x **1.5/2.0 ml**, max. Ø 11 mm, e.g. no. 15008, 15040
17651 20 x **4 - 7 ml**, max. Ø 15.5/18 x 50 - 75 mm, e.g. Monovette, Primavette,
17652 36 x **5 ml**, max. Ø 12.5 x 60 - 80 mm, e.g. RIA tube no. 15060, hemolyse tubes
17656 22 x **5 - 6 ml**, max. Ø 13.5/17.5 x 70 - 90 mm, e.g. RIA tube no. 15060
 Vacutainer -, hemolyse tubes
17654 32 x **7 ml**, max. Ø 12.5 x 85 - 115 mm, e.g. no. 15007, 15027
17658 19 x **9 - 15 ml**, max. Ø 17.2/19.5 x 85 - 115 mm, e.g. no. 15015, 15020, 15022, 15023, 15024 and Monovettes 9 - 10 ml
17655 20 x **10 - 12 ml**, max. Ø 16.2/18 x 65 - 90 mm, e.g. no. 15000, 15010, 15039
17659 12 x **15 ml** culture no. 15115, cap Ø max. 23 mm
17660 15 x **15 ml** culture no. 15115 cap Ø max. 22 mm*
17670 8 x **25 - 30 ml**, max. Ø 25.4/30 x 90 - 115 mm, e.g. no. 15025, 15026, 15029, 15030, 15032, 15033
17662 7 x **30 ml**, max. Ø 25/31 x 65 - 95 mm, e.g. Barloworld Scientific Ltd.
17676 7 x **40 - 50 ml** max. Ø 29/32 x 90 - 115 mm, e.g. 13055, 15051, 15052
17675 4 x **50 ml**, max. Ø 35/38 x 90 - 115 mm, e.g. 15049, 15056, 15050
17677 5 x **50 ml** culture, e.g. no. 15151, Nunc, Corning, Falcon and Greiner
17678 5 x **50 ml** culture, max. Ø 29,4/36 x 90 - 115 mm**
17649 7 x **50 ml** culture, max. Ø 29/36 x 90 - 115 mm*
17685 3 x **78 - 85 ml**, max. Ø 38/40 x 90 - 110 mm, e.g. no. 13085, 15076, 15080
17690 2 x **100 ml**, max. Ø 45/47 x 85 - 110 mm, e.g. no. 15100, 15102, 15103, 15106
17692 1 x **125 ml**, max. Ø 51 x 90 - 115 mm, e.g. no. 15125
17694 1 x **150 - 200 ml** culture angle 88°, max. Ø 60 x 120 - 140 mm*
17696 1 x **200 ml** approx., max. Ø 57 x 90 - 115 mm, e.g. no. 15202, 15203
17693 1 x **200 ml - 250 ml** culture, angle 60°, max. Ø 61.5 x 140 mm e.g. no. 15175, 15174
17698 1 x **250 ml**, max. Ø 61.5 x 90 - 125 mm, e.g. no. 13255, 15247, 15249
13654 1 x **500 ml**, Ø 85 x 130 - 173 mm, e.g. no. 15500, 15501
17682 1 x **500 ml** culture, no. Corning 431123, angle 75°, Ø 96 x 150 mm*
13456 1 x **650 ml**, Ø 100 x 111 mm, cap 17123

* without bucket cap 17170 ** with rim



Terumo Venosafe



BD Vacutainer

Spincontrol L

Display	LCD with backlight
Permanent display set and current values	+
Display of dimensions	+
Timer	10 sec - 99h 59 min
Runtime starts after set speed has been reached	+
Time increments [sec]	1
Short run	+
Continuous run	+
Speed increments [rpm]	100
Display speed or g-force	+
G-force increments [xg]	10
Programs	50
Acceleration curves	10
Deceleration curves	10
Brakeless	+
Acoustic signal, switchable	+, +
Optical display standstill	+
Cycle counter	+
Signal expired rotor life time	+
Automatic lid opening at the end of the run, switchable	+, +
Control unit lockable	+



Technical data	4-5L
Power consumption [W]	1.000
Max. capacity [ml]	4 x 650
Max. speed [rpm]	4.700
Min. speed [rpm]	100
Interference suppression	EN 61326
Height x Width x Depth [mm]	410 x 496 x 634
Height with open lid [mm]	900
Weight without rotor [kg]	77
Kinetic energy max. [Nm]	23.086
Noise level at max. speed [dB (A)]	67
Max. acceleration [sec]	46
Max. deceleration [sec]	26



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