MIXING & SEPARATING

Sunlab® rotator "digi mixer" with axial rotation

The **Sunlab® rotator "digi mixer"** is the practical solution for intensively or gently shaking or inverting powdered or liquid samples. Speed, time and amplitude are variably adjustable in 10 different programmes. The large LCD display means you have all parameters in view. Adjustable up to 99 RPM.

Easy to use and versatile.

The digi mixer is light and can therefore be set up in the most varied of areas. You can use the digi mixer on your workbench, in the cold chamber, in the incubator or at the safety workbench.

The combo rack for 1.5, 5, 15 and 50 ml is included with the digi mixer.

There are also additional racks available for reaction vessels of various volumes. These can be shaken vertically, horizontally or in a variable manner.

Art.No.	Description
D-8801	Rotator digi mixer
D-8802	Additional rack for reaction vessels, 36 x 1.5/2.0
D-8803	Additional rack for reaction vessels, 22 x 5.0/15 ml
D-8804	Additional rack for centrifuge vials, 12 x 50 ml
D-8805	Additional rack for reaction vessels, 12 x 5.0/15 ml
D-8806	Additional rack for centrifuge vials, 12 x 50 ml

Sunlab® 8-channel microlitre pipette, autoclave-safe

The mechanical **Sunlab® 8-channel microlitre pipette** is the right pipette if you want it quick and simple. It is light, ergonomically shaped and can be used perfectly with all common tasks. The microlitre pipette is completely autoclave-safe and is available in different volumes from 10 to 300 µl.

The volume of the pipette can be set easily using a rotary control on the pipetting button and read from the display. The used pipette tips can be removed easily with the ejector. The Sunlab® microlitre pipette is calibrated according to the standard DIN EN ISO 8655.

Art.No.	MIN volume	MAX volume	Spacing
D-8709	0.5 µl	10 µl	0.1 µl
D-8711	5 µl	50 µl	0.5 µl
D-8712	50 µl	300 µl	5 µl

LIQUID HANDLING

Sustainable Lab Instruments

Sunlab® rotator with universal rotation plate

The inexpensive, analogue Sunlab plate rotator mixes your samples carefully and effectively. The variable configuration of its sockets makes it suitable for 48 x 1.5ml reaction vessels, for 16 x 15ml or for 8 x 50ml centrifuge vials. The brackets for the 15 ml centrifuge vials can also be used for 16 x 5ml Eppendorf reaction vessels. The slim design means that the Sunlab rotator can also be used in incubators and cooling chambers.

Including 12 x brackets for 15ml vials, 12 x brackets for 50ml vials, 36 x brackets for 1,5ml vials (also available separately)

Art.No.
D-8010

Sunlab® microlitre pipette, autoclave-safe

The mechanical **Sunlab® microlitre pipette** is the right pipette if you want it quick and simple. It is light, ergonomically shaped and can be used perfectly with all common tasks. The microlitre pipette is completely autoclave-safe and is available in different volumes from 0.1 to 10,000 µl.

The volume of the pipette can be set easily using a rotary control on the pipetting button and read from the display. The used pipette tips can be removed easily with the ejector. The Sunlab® microlitre pipette is calibrated according to the standard DIN EN ISO 8655.

Art.No.	MIN volume	MAX volume	Spacing
D-8701	0.1 µl	2.5 µl	0.05 µl
D-8702	0.5 µl	10 µl	0.1 µl
D-8703	2 µl	20 µl	0.5 µl
D-8704	10 µl	100 µl	1 µl
D-8705	20 µl	200 µl	1 µl
D-8706	100 µl	1000 µl	5 µl
D-8707	1000 µl	5000 µl	50 µl
D-8708	2000 µl	10000 µl	100 µl

Sunlab® dispenser

The **Sunlab® dispenser** is suitable for all common dispenser tips (e.g. from Brand®) with a volume of 5.0 to 50 ml. Ideal for all highly viscous liquids and those with a high steam pressure. Light and ergonomically shaped, for simple, one-handed work.

Up to 48 dispenser stages can be set freely. The table on the dispenser can be used as a guide for this.

Art.No.
D-8710

Sunlab® pipette controller

The Sunlab® digital pipette controller makes it easier to pipette in your lab. Weighing only 190 grams, and with its ergonomic handle shape and easily accessible buttons, this pipette controller is easy to use and comfortable. Its high-performance battery and 8 different speed settings mean that it can fill glass or plastic pipettes quickly with different viscous liquids. the volume area of the Sunlab® pipette controller ranges from 0.1 to 100 ml. Its easy-to-read display shows both the set speed and the battery status.

Included:

- Pipette controller
- Lithium-ion battery pack (approx. 8 hours operating time)
- Charging device (charging time 2-3 hours)
- Replacement filters (0.45µm pore size) and silicone adapters for different pipettes
- 2-position stands

Art.No.
D-8700

Sunlab® bottle top dispenser

The Sunlab® bottle top dispenser is suitable for a wide range of dosing tasks in the lab. Thanks to its high chemical resistance, most acids, alkalis and solvents can be dispensed with ease. All parts which come into contact with liquids are manufactured from resistant plastics (BSG, PTFE, FEP). The dispenser is easy to clean and completely autoclave-safe. The various adaptors for different thread types and sizes included with the dispenser make the Sunlab® bottle top dispenser suitable for a wide range of bottles and vessels.

Art.No.	Description	MIN volume	MAX volume	Spacing
D-8605	Bottle top dispenser	0.5 ml	5 ml	0.1 ml
D-8610	Bottle top dispenser	1 ml	10 ml	0.2 ml
D-8625	Bottle top dispenser	2.5 ml	25 ml	2.5 ml
D-8650	Bottle top dispenser	5 ml	50 ml	5 ml
D-8651	Replacement dosing canula for		models	all
D-8652	Replacement suction tube for		models	all

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MAGNETIC STIRRERS

Sunlab® mini magnetic stirrer for up to 0.8 l, ultra-flat

Robust, ultra-flat **Sunlab® mini magnetic stirrer**. The ultra-flat, slip-safe casing is very robust, the stirring site (90 x 90 mm) is resistant against a wide range of chemicals. The maximum stirring volume is 0.8 litres. The automatic rotation inversion leads to better mixing results.

- **Maximum load**: 2 kg
- The appliance is suitable for use in the incubator
- **Certificates**: DIN EN 60529

Art.No.
D-8260

Sunlab® magnetic stirrer for up to 3 l, analogue

Robust, compact and adjustable mini magnetic stirrer. The **Sunlab® mini magnetic stirrer** has an analogue adjustable rotational speed. The maximum stirring volume is 3 litres with an optimum stirrer size of 50 mm. The diameter of the plate is 135 mm.

- **Certificates**: DIN EN 60529

Art.No.	Description
D-8250	Magnetic stirrer, 3 l
D-8158	Stand rod

Sunlab® magnetic stirrer for up to 20 l, LCD display

The **digital Sunlab® magnetic stirrer** with heating is ideally suited to quick mixing and heating of large quantities of liquids with a low viscosity. Thanks to its high-performance and maintenance-free motor, this magnetic stirrer achieves a heating capacity of up to 550°C and a maximum stirring volume of 20 litres. You can set the stirring speed from 100 to 1,500 RPM and the temperature by using the two dials and this is readable via the LCD display. In-built overheat protection (580°C) as well as a residual heat display of approx. 50°C protect users and the lab from hazards. The robust and chemically-resistant glass ceramic plate (LxW 184 x 184 mm) ensures fast heating up times and is easy to clean.

More information about the Sunlab® magnetic stirrer:

- **Temperature precision: ±1°C, with sensor**: ±0.2°C

Included:

- Sunlab® digital magnetic stirrer with heating
- Power supply cable
- Temperature sensor
- Please note that there is no stand included with the product. To be ordered as an accessory with order no. D-8159

Art.No.	Description
D-8350	Magnetic stirrer, 20 l
D-8159	Stand rod

Sunlab® magnetic stirrer for up to 3 l, LED display

The **Sunlab® mini magnetic stirrer** without heating is ideally suited to quickly mix moderate quantities of liquids with low viscosity. Thanks to its high-performance and maintenance-free motor, this magnetic stirrer achieves a maximum rotational speed of 1,500 RPM and has a maximum stirring volume of around 3 litres. The stirring plate has a diameter of 135 mm and is made from robust ABS plastic. You can set the stirring speed by using the dial and this is readable via the LCD display.

Included:

- Sunlab® digital mini magnetic stirrer without heating
- Power supply cable
- Please note that there is no stand included with the product. To be ordered as an accessory with order no. D-8158

Art.No.	Description
D-8200	Magnetic stirrer, 3 l
D-8158	Stand rod

Sunlab® magnetic stirrer for up to 10 l, LED display

The **digital Sunlab® magnetic stirrer** with heating is ideally suited to quickly mixing and heating liquids with low viscosity. Thanks to its high-performance motor, this magnetic stirrer achieves a heating capacity of up to 550°C and a maximum stirring volume of 10 litres. You can set the stirring speed from 100 to 1,500 RPM and the temperature by using the two dials and this is readable via the LCD display. In-built overheat protection (580°C) as well as a residual heat display of approx. 50°C protect users and the lab from hazards. The robust and chemically-resistant glass ceramic plate (LxW 184 x 184 mm) ensures fast heating up times and is easy to clean.

More information about the Sunlab® magnetic stirrer:

- **Temperature precision: ±10°C, with sensor**: ±0.2°C
- **Information**: The magnetic stirring rod used with this magnetic stirrer should be maximum 80 mm long.

Included:

- Sunlab® digital magnetic stirrer with heating
- Power supply cable
- Temperature sensor
- Please note that there is no stand included with the product. To be ordered as an accessory with order no. D-8159

Art.No.	Description
D-8300	Magnetic stirrer, 10 l
D-8159	Stand rod

Flask bases for the Sunlab® magnetic stirrer

The magnetic stirrer bases made from aluminium are suitable for round-bottom flasks. Each base can hold one flask. They go with Sunlab® magnetic stirrer SU1150 (D-8150).

Art.No.	Base is suitable for
D-8151	Round-bottomed flask 250 ml
D-8152	Round-bottomed flask 500 ml

Sunlab® magnetic stirrer for up to 3 l, LED display

The **Sunlab® mini magnetic stirrer** with heating is ideally suited to quickly mixing and heating moderate quantities of liquids with low viscosity. Thanks to its high-performance motor, this magnetic stirrer achieves a heating capacity of up to 280°C and a maximum stirring volume of around 3 litres. The ceramic-coated heating plate with a diameter of 135 mm is resistant against chemicals and guarantees a quick heating up time to its maximum temperature of 280°C. In-built overheat protection (320°C) as well as a residual heat display of approx. 50°C guarantee simple and safe handling with this magnetic stirrer. You can set the stirring speed using the two dials and this is readable via the LCD display.

More information about the Sunlab® mini magnetic stirrer:

- **Temperature precision: ±1°C, with sensor**: ±0.5°C

Included:

- Sunlab® digital mini magnetic stirrer with heating
- Power supply cable
- Temperature sensor
- Please note that there is no stand included with the product. To be ordered as an accessory with order no. D-8158

Art.No.	Description
D-8150	Magnetic stirrer
D-8158	Stand rod

Sunlab® Vortexmaster

Sunlab Vortexmaster SU1901 – the economic alternative.

The digital Sunlab® Vortexmaster SU1901 helps to mix lab samples quickly and powerfully. This heavy vortexer weighing 4 kg also remains stable at the workplace in your lab, even with tasks at high rotational speed.

The continually adjustable speed from 200 to 3,000 RPM on the LED display helps the vortexer to mix the most varied of samples. The Vortexmaster can be operated in press-to-mix, timer or duration modes. The area of application can also be expanded with the help of a large selection of add-on accessories.

Art.No.	Description
D-8901	Vortexmaster
D-8902	Add-on for microtitre plate
D-8903	Add-on for reaction vessels
D-8904	Adapter for D-8903 (required)

Sunlab® Roller mixer

The **Sunlab® tumble roller mixer** with a fixed rotation speed of 30 RPM is characterised by its simple but robust structure. Stable rollers ensure a gentle yet effective seesaw roller movement. The roller mixer is particularly quiet and also does not lead to an increase of the noise level when used continually.

Certificates: DIN EN 60529

Art.No.
D-8402

Sustainable Lab Instruments

Sunlab® 1/4 aluminium blocks for heating plates

Anodised aluminium blocks with different hole diameters to heat reaction vessels, each ¼ wedge. The blocks are suitable for placing on heating plates and magnetic stirrers. The corresponding glass reactions vessels are available on request

Art.No.	Color	Capacity	For volume	For diameter
D-8301	red	11	4 ml	15 mm
D-8302	purple	4	20 ml	28 mm
D-8303	blue	4	30 ml	28 mm
D-8304	black	4	40 ml	28 mm
D-8305	green	6	8 ml	17.5 mm
D-8306	gold	4	16 ml	21.5 mm

MIXING & SEPARATING

Sunlab® mini vortex mixer

The Sunlab® mini vortex mixer SU1900 helps you save a lot of space in the lab thanks to its compact size. With a fixed shake frequency of 3,000 RPM, this vortexer is ideally suited for mixing lab samples with a volume of up to 50 ml and a vessel diameter of max. 30 mm quickly and efficiently. The press-to-mix function of the Sunlab mini vortex mixer can be activated with little force.

- Small and light, approx. 500 g, simple operation, easy to activate the press-to-start function
- The upper diameter is 40 mm, the lower 94 mm

Art.No.
D-8900

Sunlab® rotator with axial rotation, can be variably equipped

The upside-down movement allows you to mix the samples gently and effectively. Thanks to the variable places, the Sunlab rotator is suitable for either 60 x 1.5ml reaction vessels or for 22 x 15ml or for 16 x 50ml vials. The brackets for the 15ml vials can also be used for 22 x 5ml Eppendorf reaction vessels. The 64 places can also be filled if needed. Here, the user can make a choice where and which brackets he/she wishes to use. The slim design of the Sunlab rotator means that it can also be used in incubation and cooling chambers.

- **Certificates**: DIN EN6052

Art.No.
D-8100

MIXING & SEPARATING

Sunlab® orbital shaker

Sunlab® orbital shaker with an amplitude of 20 mm to mix media gently and in a circular manner. The universal platform can also be equipped with brackets to use with Erlenmeyer flasks. The speed can be set variably with a rotary knob. The slim design of the Sunlab rotator means that it can be used in incubation and cooling chambers without issue.

- **Certificates:** DIN EN 60529

Art.No.	Description
D-8020	Orbital shaker
D-8021	Platform for Erlenmeyer flasks

Brackets for Erlenmeyer flasks for the Sunlab® orbital shaker

With these brackets, Erlenmeyer flasks of 25 ml, 50 ml, 100 ml, 250 ml and 500 ml can be fastened to the universal platform for Sunlab orbital shaker SU1020.

Art.No.	For vessels with volume up to
D-8022	25 ml
D-8023	50 ml
D-8024	100 ml
D-8025	200 m l |250 ml
D-8026	500 ml

Sunlab® 3D orbital shaker

The **Sunlab® 3D shaker** mixes media with a 3D orbital movement. The incline angle is 7°. The speed can be set variable using a dial. The slim design means that the shaker can be used in incubation and cooling chambers without issue.

- **Certificates**: DIN EN 60529

Art.No.
D-8030

Sunlab® 3D lab shaker

The **Sunlab® 3D lab shaker** with a fixed speed of 20 RPM and an incline angle of 20°. On the 26 x 26cm platform of the Sunlab® 3D lab shaker, a rubber mat with elastic nubs ensures a secure and fixed grip of the sample vessels such as reaction vessels, vials, bowls or plates.

Art.No.
D-8040

Sunlab® mini centrifuge

The Sunlab® mini centrifuge supports you with the quick preparation of small sample sizes in your lab. The fixed rotational speed of 7,000 RPM is reached quickly by the small centrifuge. You can turn it on and off easily by opening or closing the lid. Compared to other mini centrifuges in the lab, the lid can be opened quickly after use without having to allow the rotor to decelerate over a long period of time. Use of the Sunlab® mini centrifuge produces very little noise of just 45 dB thanks to its good sound insulation.

Included:

- Mini centrifuge
- Rotor for 8 x 1.5/2 ml reaction vessels
- 8 x adapters of 2ml to 0.2ml PCR
- Power supply cable
- **Certificates**: DIN EN60529

Art.Np.	Description
D-8550	Mini centrifuge
D-8551	Replacement rotor add-on for PCR vessels, 8 x 0.2 ml
D-8552	Replacement rotor add-on for PCR vessels, 8 x 0.5 ml
D-8553	Replacement rotor for reaction vessels, 8 x 1.5/2.0 ml
D-8554	Replacement rotor for PCR-strips (8s), 2 x 0.2 ml

Sunlab® rotator, digital

High-performance Sunlab® plate rotator with LCD display without rotary plate.

Digital rotational speed setting, to mix samples gently and effectively. Depending on the rotary plate type, suitable for 60 x 1.5ml reaction vessels, for 16 x 15ml or 8 x 50ml vials. The brackets for the 15ml vials can also be used for 16 x 5ml Eppendorf reaction vessels. Timer: 1-1199 min.

- Can also be used in incubation or cooling chambers.
- **Certificates**: DIN EN60529
- A rotary plate is required as an accessory (D-8501 to D-8503) to operate the rotator.

Art.No.	Description
D-8500	Sunlab rotator
D-8501	Rotary plate for 60 x 1.5 ml reaction vessels
D-8502	Rotary plate for 16 x 15 ml centrifuge vials
D-8503	Rotary plate for 8 x 50 ml centrifuge vials
D-8504	Adaptor for the use of a 2nd rotary plate, (4 pc.)

Sunlab® roller mixer

The Sunlab® tumble roller mixer turns vials or small bottles of max. 100 mm diameter with six simultaneously-rotating rubber rollers in a soft and even manner. This ensures that the samples are carefully mixed. The appliance is suitable for long-term use. The load-bearing limit is 4 kg.

- **Certificates**: DIN EN60529

Art.No.
D-8400