



Sunlight Medical

PRODUCT CATALOG

**Assisted Reproduction
Microtools**



WWW.SUNLIGHTMEDICAL.COM

Welcome to Sunlight Medical

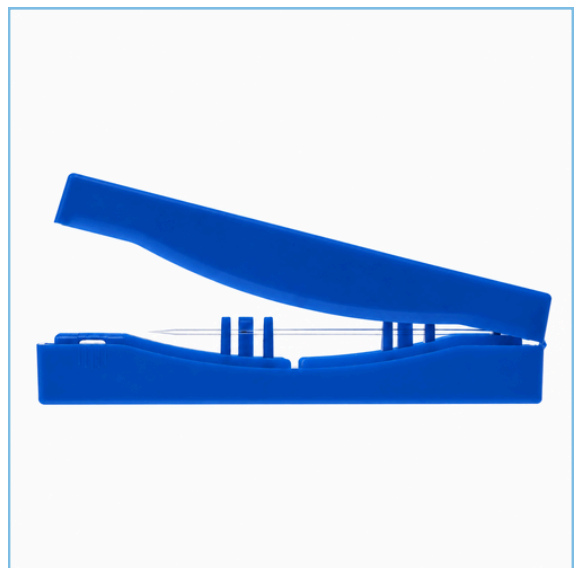
Sunlight Medical manufactures precision microtools for assisted reproductive technology (ART) and life science research. Our medical devices support IVF clinicians and embryologists in infertility treatment, and enable micromanipulation of non-human gametes and embryos in veterinary and scientific research.

About Us

Sunlight Medical was founded in 2007 with the goal of improving the quality and reliability of micropipettes used in assisted reproductive technology (ART).

At the time, pipettes on the market lacked consistency in specification and quality, making delicate micromanipulation procedures more difficult and less reliable, particularly the ICSI pipettes. Recognizing these challenges, the founders of Sunlight Medical believed they could design and manufacture a better solution.

Today, Sunlight Medical is the world's leading manufacturer of precision micropipettes. From established configurations to customizable dimensions designed specifically for your technique, Sunlight Medical manufactures micropipettes for every embryologist and scientist. In fact, Sunlight Medical is the only manufacturer that produces all types of micropipettes.



Sunlight Medical products are FDA cleared, CE marked, and manufactured in compliance with ISO 13485 quality standards.

Every Sunlight microtool is manufactured under rigorous quality control standards, ensuring consistent quality and precision you can rely on.



Actual Sunlight holding pipette
under microscopic magnification

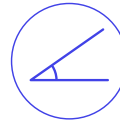
Holding Pipettes

Sunlight's holding pipettes are used to hold an oocyte or embryo in position during ICSI and other micro-manipulation procedures.

The classic series has an ID 15-20 μm . The 'S' series has smaller ID 10-15 μm . The 'B' series has an ID 25-30 μm . The 'B' series may be used for holding an oocyte with cumulus cells attached and for embryo biopsy. Other IDs up to 80 μm are also available.



INNER DIAMETER
10 μm - 80 μm



ANGLE
0° - 45°



TIP TO ELBOW LENGTH
0.65mm - 2.00mm

MOST COMMON SPECIFICATIONS

Catalog #	Outer Diameter μm	Inner Diameter μm	Tip Angle Degree
SHP-70S-xx*	70	10-15	xx – 0°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°
SHP-90-xx*	90	15-20	
SHP-100-xx*	100	15-20	
SHP-120-xx*	120	15-20	
SHP-120B-xx*	120	25-30	
SHP-130-xx*	130	15-20	
SHP-130B-xx*	130	25-30	
SHP-150-xx*	150	15-20	
SHP-150B-xx*	150	25-30	
SHP-180B-xx*	180	25-30	

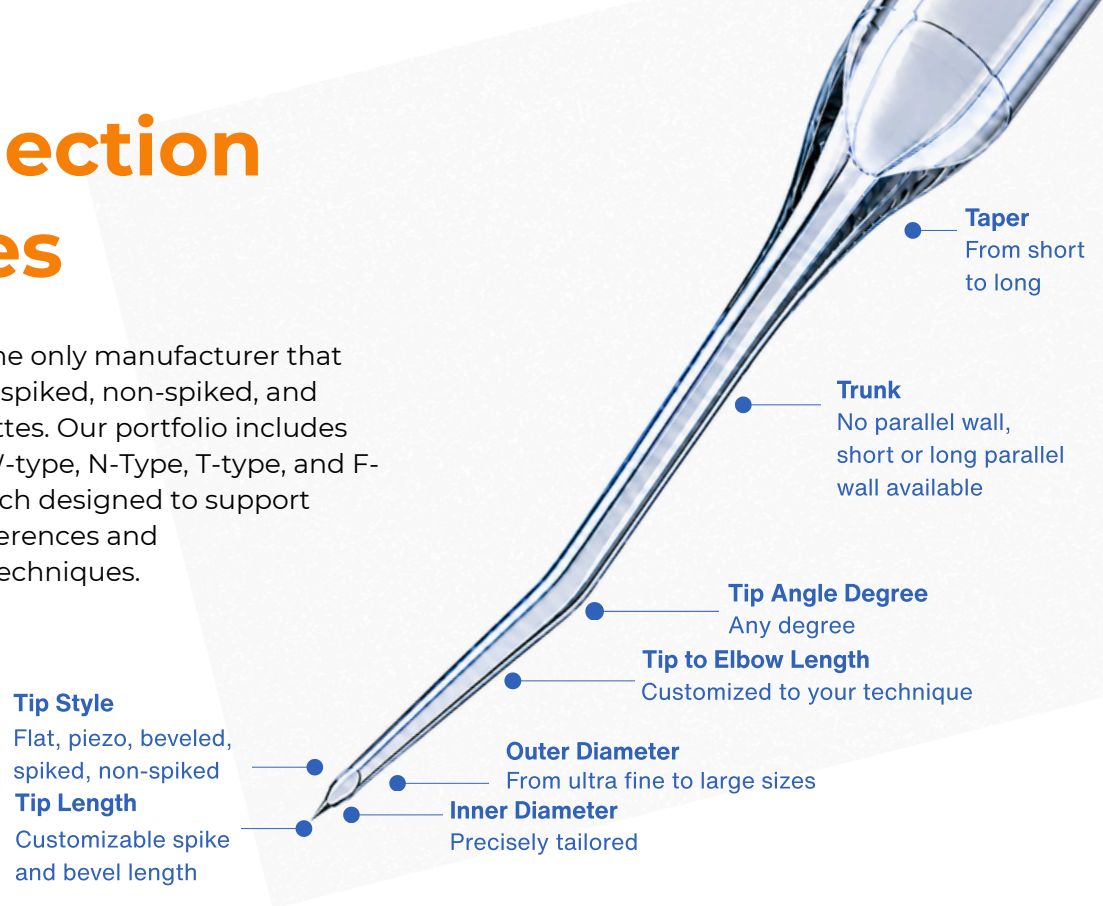
*xx Tip-to-Elbow Length Variations: xx = 0.5 mm; xxL = 1.0 mm; xxQ = 1.5 mm; xxR = 2.0mm



**OTHER SPECIFICATIONS OR CUSTOMIZED
PIPETTES ARE AVAILABLE UPON REQUEST**

ICSI Injection Pipettes

Sunlight Medical is the only manufacturer that produces all types of spiked, non-spiked, and piezo ICSI micropipettes. Our portfolio includes the V-type, H-type, W-type, N-Type, T-type, and F-type ICSI pipettes, each designed to support different clinical preferences and micromanipulation techniques.



SPIKED

V Type



Characteristics:

- Short taper
- Long parallel wall section
- Tip to elbow length typically 0.55mm or 1.00mm
- Less damage to oocyte
- Can load more sperm to save time

H Type



Characteristics:

- Longer taper
- Short parallel wall
- Typically longer tip to elbow length of 0.75mm
- Can load more sperm to save time

W Type



Characteristics:

- Short taper
- No parallel wall, instead convergent wall
- Typically standard tip to elbow length of 0.55mm
- Stiffer for easier immobilization of sperm

NON-SPIKED

N Type



Characteristics:

- Short taper
- Long parallel wall section
- Tip to elbow length typically 0.55mm or 1.00mm
- No spike

T Type



Characteristics:

- Longer taper
- Short parallel wall
- Typically longer tip to elbow length of 0.55mm
- No spike

PIEZO/FLAT

F Type



Characteristics:

- Short taper
- Long parallel wall section
- Thin wall
- Long tip to elbow length typically 2mm to 5mm
- Flat tip

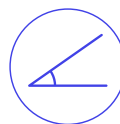


Actual Sunlight ICSI pipette
under microscopic magnification

ICSI Injection Pipettes

Sunlight's ICSI injection pipettes are used to perform intracytoplasmic sperm injection (ICSI).

Our ICSI pipettes can also be bent at the opposite direction for left-handed operators.



ANGLE
0° - 45°



TIP TO ELBOW LENGTH
0.55mm - 5.00mm

MOST COMMON SPECIFICATIONS

Catalog #	Size*	Tip Style	Tip to Elbow Length	Tip Angle Degree
SIC-45V-xx, SIC-45V-xxL SIC-45W-xx, SIC-45W-xxL	ID: 4.0-4.5 µm OD: 5-6 µm	Spiked	xx – 0.55 mm xxL – 1.0 mm	xx – 0°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°
SIC-45H-xx	ID: 4.0-4.5 µm OD: 5-6 µm	Spiked	xx – 0.75 mm xxL – 1.0 mm	
SIC-45T-xx, SIC-45T-xxL SIC-45N-xx, SIC-45N-xxL	ID: 4.0-4.5 µm OD: 5-6 µm	Non-Spiked	xx – 0.55 mm xxL – 1.0 mm	
SIC-50V-xx, SIC-50V-xxL SIC-50W-xx, SIC-50W-xxL	ID: 4.5-5.0 µm OD: 6-7 µm	Spiked	xx – 0.55 mm xxL – 1.0 mm	
SIC-50H-xx	ID: 4.5-5.0 µm OD: 6-7 µm	Spiked	xx – 0.75 mm xxL – 1.0 mm	
SIC-55V-xx, SIC-55V-xxL SIC-55W-xx, SIC-55W-xxL	ID: 5.0-5.5 µm OD: 6-7 µm	Spiked	xx – 0.55 mm xxL – 1.0 mm	
SIC-55H-xx	ID: 5.0-5.5 µm OD: 6-7 µm	Spiked	xx – 0.75 mm xxL – 1.0 mm	
SIC-45F-xxR, SIC-45F-xxK SIC-50F-xxR, SIC-50F-xxK	ID: 4.5-5.0 µm OD: 6-7 µm	Piezo/Flat	xxR – 2.0 mm xxK – 5.0 mm	

*ID: Inner Diameter OD: Outer Diameter

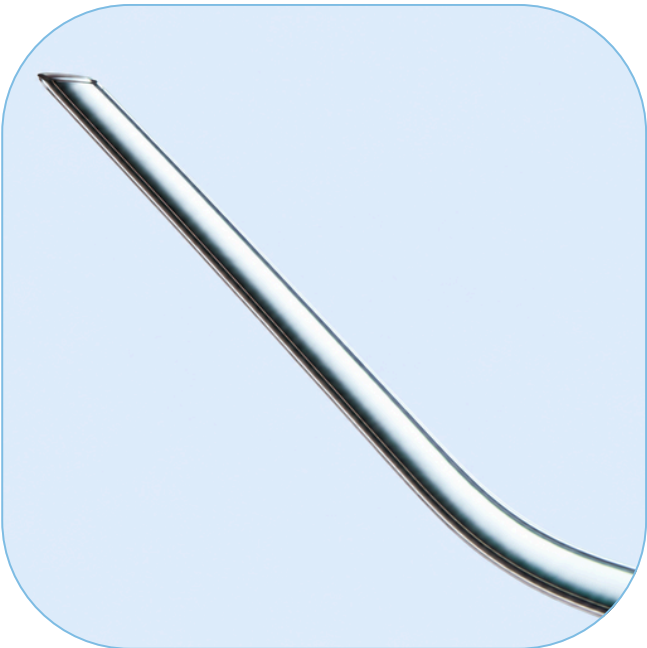


**OTHER SPECIFICATIONS OR CUSTOMIZED
PIPETTES ARE AVAILABLE UPON REQUEST**

Blastomere Biopsy Pipettes

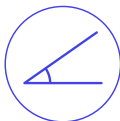
Blastomere biopsy pipettes remove blastomeres and trophectoderm cells from embryos for pre-implantation genetic testing (PGT).

The diameter of Sunlight’s pipettes do not shrink at the bend/angle so our pipettes are less likely to damage the blastomere or have a loss of cells. All tips are also fire polished to reduce damage to the cell membrane. A spiked tip style is also available.



Actual Sunlight blastomere biopsy pipette under microscopic magnification

An ID of 20 μ m and 25 μ m are recommended for trophectoderm (TE) biopsy.



ANGLE
0° - 45°



TIP TO ELBOW LENGTH
0.55mm - 2.00mm

MOST COMMON SPECIFICATIONS

Catalog #	Tip Style	Inner Diameter μ m	Tip Angle Degree
SBB-20Z-xx*	Flat	20 $\pm$ 0.2	xx – 0°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°
SBB-25Z-xx*	Flat	25 $\pm$ 0.2	
SBB-30Z-xx*	Flat	30 $\pm$ 0.2	
SBB-35Z-xx*	Flat	35 $\pm$ 0.2	
SBB-40Z-xx*	Flat	40 $\pm$ 0.2	
SBB-20X-xx*	Beveled	20 $\pm$ 0.2	
SBB-25X-xx*	Beveled	25 $\pm$ 0.2	
SBB-30X-xx*	Beveled	30 $\pm$ 0.2	
SBB-35X-xx*	Beveled	35 $\pm$ 0.2	
SBB-40X-xx*	Beveled	40 $\pm$ 0.2	

*xx Tip-to-Elbow Length Variations: xx = 0.5 mm; xxL = 1.0 mm; xxQ = 1.5 mm; xxR = 2.0mm



OTHER SPECIFICATIONS OR CUSTOMIZED PIPETTES ARE AVAILABLE UPON REQUEST

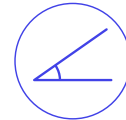


Actual Sunlight PZD pipette
under microscopic magnification

PZD Pipettes

Sunlight's PZD pipettes are used to cut an opening on the zona pellucida of an oocyte mechanically to enable assisted hatching and/or embryo biopsy.

The pipette is designed with a very sharp tip and a strong taper section for easy control and precision manipulation.



ANGLE
0° - 45°



TIP TO ELBOW LENGTH
0.55mm

MOST COMMON SPECIFICATIONS

Catalog #	Tip Style	Tip Angle Degree
SPD-xx*	Solid Sharp Tip	xx – 0°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°

*xx Tip-to-Elbow Length Variations: xx = 0.5 mm; xxL = 1.0 mm; xxQ = 1.5 mm



**OTHER SPECIFICATIONS OR CUSTOMIZED
PIPETTES ARE AVAILABLE UPON REQUEST**

Denuding Pipettes

Sunlight's denuding pipettes can be used with Sunlight's 3-in-One pipette controller and other pipette holders for denudation, as well as gametes and embryo transfer.

The pipettes are made of borosilicate glass which is known for its stability. It is resistant to corrosion and remains absolutely neutral, even to aggressive chemicals in nearly all fields of chemistry.

The glass pipette has better wetting feature compared to plastic ones, and is less likely to have oil drops attached inside which can sometimes damage an oocyte and embryo.



Actual Sunlight denuding pipette under microscopic magnification

MOST COMMON SPECIFICATIONS

Unpolished Tip Style

Unpolished pipettes are used to remove cumulus cells attached to zona prior to micromanipulation procedures and fertilization assessment.

Catalog #	Inner Diameter μm
SDP-130	130 - 134
SDP-140	135 - 144
SDP-150	145 - 154
SDP-160	155 - 164
SDP-170	165 - 174



**OTHER SPECIFICATIONS OR
CUSTOMIZED PIPETTES ARE
AVAILABLE UPON REQUEST**

Polished Tip Style

Polished pipettes are used to transfer blastomere (during PGT), oocytes and embryos from one dish to another during other assisted reproduction procedures.

Catalog #	Inner Diameter μm
SDP-70P	65 - 74
SDP-80P	75 - 84
SDP-90P	85 - 99
SDP-100P	100 - 119
SDP-170P	170 - 189
SDP-190P	190 - 219
SDP-220P	220 - 249
SDP-250P	250 - 289
SDP-290P	290 - 319
SDP-320P	320 - 360



Sunlight's 3-in-One pipette controller with silicon bulb assembly

Sunlight Medical
3 in One PIPETTOR
U.S. Patent approved

Please Note: This product is intended for research purposes only.

Pipette Controllers

Sunlight's 3-in-One Pipettor is a multi-actuated micro-pipette controller, which includes a housing and access door, and a ballonet seated at the housing. The ballonet is connected through a pipe to a pipette pin base (ballonet assembly). The ballonet assembly can be replaced easily for contamination control.

It can be operated in three ways:

- Press on the top cap for denudation of cumulus cells and gamete transfer.
- Press on the ballonet directly for denudation and transfer.
- Take the ballonet assembly out and use it like a Pasteur pipette.

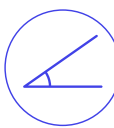
PRODUCT CODE

Catalog #	Description
SDP-C01	3-in-One Pipette Controller
SDP-C01A	Silicon Bulb Assembly

Polar Body Biopsy Pipettes

Sunlight's polar biopsy pipettes are used to remove polar bodies from human oocytes and embryos for pre-implantation genetic testing (PGT).

All these pipettes are designed with a fire polished edge to avoid damage to the cell membrane.



ANGLE
0° - 45°



TIP TO ELBOW LENGTH
0.55mm - 2.00mm



Actual Sunlight polar body biopsy pipette under microscopic magnification

MOST COMMON SPECIFICATIONS

Catalog #	Tip Style	Inner Diameter μm	Tip Angle Degree
SPB-15Z-xx*	Flat	13 - 15	xx – 0°, 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°
SPB-15X-xx*	Beveled	13 - 15	
SPB-15S-xx*	Beveled and Spiked	13 - 15	

*xx Tip-to-Elbow Length Variations: xx = 0.5 mm; xxL = 1.0 mm; xxQ = 1.5 mm; xxR = 2.0mm



**OTHER SPECIFICATIONS OR CUSTOMIZED
PIPETTES ARE AVAILABLE UPON REQUEST**

Micropipette Instructions for Use:

1. To open the case, hold the case as shown in Figure 1. Make sure that the “Sunlight” mark is up facing your right hand.
2. Using your left index finger and thumb, press the case on both sides marked “IIII” then using your right index finger and thumb pull the top cover as shown in Figure 2.
3. Hold firmly the pipette in the middle and gently pull it out from the base as shown in Figure 3.



Caution: Consult accompanying document - Do not reuse - Sterilized using irradiation - Do not use if package is damaged - Store dry at room temperature - Keep away from sunray



Figure 1

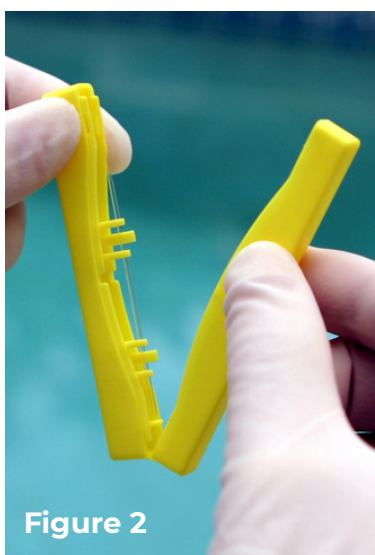


Figure 2

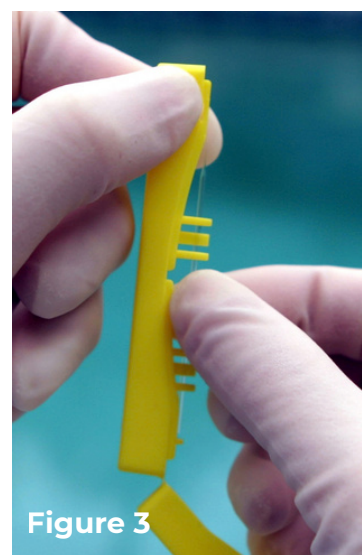


Figure 3

Packaging

Sunlight Medical pipettes are packed in convenient color-coded pipette safe cases. The outer box, safe cases, and labels are made of recyclable materials. Our compact packaging design uses minimal dimensions to reduce packaging waste, shipping volume, and transportation costs.



SperMagic® Medium

SperMagic improves sperm function like magic.

1. SperMagic® can enhance Ca²⁺ influx via membrane Ca²⁺ channel, consequently increasing dynamic movement of micro-tubules through signal transduction system, and finally promoting sperm motility.
2. SperMagic® can bind sperm member receptor and then stimulate receptor-linked signal transduction system, and increase Ca²⁺ influx, consequently promote sperm capacitation and hyper-activation.
3. SperMagic® can produce more ATP energy via increasing mitochondria metabolism, and further provide enough ATP for sperm movement.

References:

1. Biology of reproduction, Special Issue, 2005, P229-230
2. Theriogenology, Suppl. 2008, P36
3. Reproduction, Fertility & Development, 2006; 18 (1,2): 259
4. Biology of Reproduction, 2008 SEP 15; 112 (6): 182
5. Andrologia, 2018; 50: e13056 <https://doi.org/10.1111/and.13056>



Actual vial of Sunlight SperMagic medium

Please Note: This product is intended for research purposes only.

PRODUCT CODE

Catalog #	Description
F1001	SperMagic Solution, 0.5ml

Frequently Asked Questions

How long will it take to receive my order?

We can normally ship your order on the same day once it has been confirmed. We maintain large inventories of most commonly used products and typically stock approximately 300,000 micropipettes in our warehouse.

In-stock items: Typically ship the same day after order confirmation.

Large or special orders: Lead times will be confirmed when your order is acknowledged. Partial shipments may be provided, with the remaining quantities shipped within 1 to 8 weeks.

Custom or made-to-order products: Typically ship within 6 to 8 weeks.



Why do some orders take 6-8 weeks to ship?

Our products are manufactured and sterilized on a monthly schedule. This means that newly manufactured products are released for sterilization, transportation, and quality control testing every month. This includes mandatory endotoxin testing and Mouse Embryo Assay (MEA) testing. Because of this, it may require an additional 3 to 4 weeks before the products are approved for shipment.

How can I ensure my complete order is delivered on time?

To maximize the likelihood of receiving your complete order by your desired delivery date, we recommend submitting your purchase order by the 20th day of the month, at least two months in advance.

For example, if you would like to receive products on or before July 22, 2026, we recommend placing your order no later than May 20, 2026.

Advance planning allows us to schedule production, sterilization, testing, and shipping to meet your requirements.

Can forecasting help shorten my lead time?

Yes. For customers who order regularly, we encourage you to provide forecasts of your anticipated inventory requirements 2 to 3 months in advance. Forecast information helps us plan production more effectively and maintain adequate inventory levels to support your business.

By sharing your expected demand in advance, you increase the likelihood of receiving your complete order in the shortest possible time.

Frequently Asked Questions

Can Sunlight accommodate urgent orders?

Yes. If you have an urgent requirement, please contact our customer service team as soon as possible. While availability cannot be guaranteed, we will make every effort to prioritize your order and identify the fastest available shipping option.

What are the recommended storage conditions for Sunlight's pipettes?

Controlled storage environment: Store the pipettes in an air-conditioned, climate-controlled storage room maintained at 16–26°C (60.8–78.8°F) and 20–60% relative humidity. Excessive humidity or moisture can cause the pipettes to become sticky and may affect their performance.

Keep pipettes in their original shipping carton: Keep the pipettes in their original 12 × 12 × 12-inch shipping carton until they are needed for use or shipment. We do not recommend storing pipettes loosely on a shelf, as they can be damaged if they fall. The original shipping carton provides additional cushioning and protection around the pipettes.

Handle glass with care: Treat the pipettes as fragile glass products and handle them with care to minimize the risk of breakage or damage.

Store on lower shelves: Whenever possible, store the pipettes on lower shelves to minimize the distance they could fall if a carton is accidentally dropped or displaced. This helps reduce the risk of damage.



Get in Touch with Sunlight

Want samples or have an inquiry? Send us an email.

Sunlight Medical provides a diverse line of products. Even if your desired dimensions aren't in our specification list, we will make one for you!

Through our global network of trusted distributors, we provide efficient access to our products with local support and faster, cost-effective delivery. The countries where we have authorized distributors are listed below.

To place an order, please contact us and we will connect you with your local distributor. If you are interested in becoming a distribution partner, particularly in regions where we do not yet have a presence, we welcome you to reach out to explore potential opportunities for collaboration.

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✉ info@sunlightmedical.com

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Region and Country

Europe

- Austria
- Bulgaria
- Cyprus
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Iceland
- Ireland
- Italy
- Netherlands
- Norway
- Poland
- Portugal
- Serbia
- Slovenia
- Spain
- Sweden
- Ukraine
- United Kingdom
- Kosovo
- Moldova

Asia Pacific

- Bangladesh
- China
- Hong Kong
- India
- Indonesia
- Japan
- Kazakhstan
- Kirgizstan
- Korea
- Malaysia
- Myanmar
- Pakistan
- Philippines
- Singapore
- Taiwan
- Tajikistan
- Thailand
- Vietnam
- New Zealand
- Uzbekistan

Middle East

- Armenia
- Georgia
- Iran
- Iraq
- Israel
- Jordan
- Kuwait
- Lebanon
- Oman
- Qatar
- Saudi Arabia
- Syria
- Turkey
- United Arab Emirates
- Yemen

North America

- United States
- Canada
- Dominican Republic
- Mexico
- Panama
- Dominican Republic

South America

- Argentina
- Bolivia
- Brazil
- Colombia
- Ecuador
- Peru
- Uruguay
- Venezuela

Africa

- Algeria
- Egypt
- Libya
- Morocco
- Nigeria
- South Africa
- Tunisia



Sunlight Medical

Elevating Clinical Success With Precision Microtools

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ISO 13485

EC REP

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YOUR SPECIFICATION. OUR CAPABILITY. IF YOU NEED IT, ASK US TO MAKE IT.