

Langen Biomed® Microplate Heat Sealer L200Pro-Your Lab's Reliable Sealing Partner.



- **SealAccu**
- **EcoPower**
- **SafeTech**
- **FlexFit**

Langen Biomed®
Microplate Heat
Sealer L200Pro

The Langen Biomed® Microplate Heat Sealer is specifically designed for laboratories and the IVD industry. It utilizes precise heat-sealing technology to achieve efficient sealing of microplates, preventing sample evaporation and cross-contamination while ensuring sample integrity during storage and transportation. Suitable for a variety of applications such as PCR/qPCR, compound storage, and low-temperature transport, it is compatible with internationally standard consumables and complies with CE/UKCA/FCC certification requirements.

Core Advantages



1. SealAccu

Temperature range: 125 - 200°C (adjustable in 1°C increments).
Time range: 1 - 9 seconds (adjustable in 0.1-second increments).
Uniform heating plate pressure ensures consistent sealing.
One-step sealing process leaves no residue.



2. EcoPower

Rapid heating (reaches 170°C in less than 10 minutes).
Color touch screen interface for intuitive operation.
Supports storage of 6 custom parameter sets.
Preloaded parameters for Langen Biomed® dedicated consumables for immediate use.
Offers excellent stability and reliability with simple operation and low maintenance.



3. SafeTech

Features overvoltage detection and protection.
Provides real-time feedback during abnormal pressure conditions.
Offers dual alerts via visual indicators (LED status lights) and an integrated audible alarm (buzzer).



4. FlexFit

Compatible with optional adapters for 96-well plates, microplates, and deep well plates (available as optional accessories).

Appearance and Human-Computer Interaction Design

- Innovative minimalist tech design, highly recognizable, compact 0.079 m² footprint. Visual RGB light ring status indicator
Yellow Flash = Heating/Cooling
White Steady = Temp Reached
Green Steady = Sealing Done
- 5-inch touchscreen graphic interface: easy operation, customizable presets (temp ramping, timing, renaming).
- Post-sealing alerts: on-screen pop-up + buzzer, no missed tasks.

Compatible Consumables

Manufacturer's Recommendation: Use original Langen Biomed® heat sealing foil/heat sealing clear lm to ensure high-quality sealing results.



20µm Green
Heat Sealing Foil



38µm Blue
Heat Sealing Foil



70µm Red
Heat Sealing Foil



85µm Black
Heat Sealing Foil



Foils Technical specifications and applications:

| Code No. | Products | Description | Thickness (μm) | Compatibility | Temperature Range | Applications |
|---|-------------|---|----------------|---|---|--|
| LG-1001 | 70μm Red | The Solvent-Resistant Heat Sealing Foil A DMSO Resistant foil laminate suited for polypropylene and Polyethylene plates with a good liquid barrier and high solvent-resistance (at high temperatures). The seal is peelable. | 70 | Polypropylene (PP) [Peelable] Polyethylene (PE) [Non-peelable] COC[Peelable] | -80°C~80°C | Low & Ambient Temperature storage with DMSO & other solvents, PCR |
| LG-1002 | 20μm Green | The Multipurpose Heat Sealing Foil A pierceable foil seal with easy sealing Surface identification & high solvent resistance including DMSO. The film is non-peelable. pierceable & re-sealing is permissible. | 20 | Polypropylene (PP) Polystyrene (PS) | -20°C~120°C | PCR, Compound Storage, Sample Shipping |
| LG-1003 | 38μm Blue | The High-Grade Heat Sealing Foil A high-grade foil for sealing plates, for low temperature storage and for PCR with good solvent resistance including DMSO at room temp or below, easy sealing surface identification with multiple sealing and resealing properties-The seal is pierceable/ but peelable to Polystyrene only. | 38 | Polypropylene (PP) [Non-Peelable] Polystyrene (PS) [Peelable] | -20°C~110°C | PCR, Low temperature compound storage, short term room temperature compound storage |
| LG-1004 | 85μm Black | The Heavy-Duty Heat Sealing Foil A robust heat sealing foil for microplates, suitable for sample storage and PCR. The heat sealing foil offers excellent solvent resistance, including resistance to DMSO. It is pierceable, but due to its strong sealing performance, it is difficult to peel off. | 85 | Polypropylene (PP) [Peelable] Polyethylene (PE) [Peelable] Polystyrene (PS) [Peelable] | -200°C~110°C | PCR, specifically water thermal cyclers. Storage of solvent & organics including alkaline & acids. Long term storage. Low temp. transportation |
| LG-1005 | 75μm Clear | The Pierceable Clear Heat Sealing Film An optically clear, pierceable film with moderate solvent resistance. | 75 | Polypropylene (PP) [Pierceable] Polyethylene (PE) [Pierceable] Polystyrene (PS) [Pierceable] COC[Pierceable] | -80°C to 80°C or 110°C with pressurised PCR heated lids | PCR and qPCR, short-term storage Suitable for capillary sequencers and automated liquid handlers, such as the ABI 3730 PCR sequencer |
| LG-1006 | 105μm Clear | The Peelable Clear Heat Sealing Film An optically clear, peelable film with moderate solvent resistance. | 105 | Polypropylene (PP) [Peelable] Polyethylene (PE) [Peelable] Polystyrene (PS) [Peelable] COC[Peelable] | | PCR and qPCR, short-term compound storage, imaging fluorescent detection and colorimetric assays |
| According to the best heat sealing effect of the heat sealing foil, the temperature and time setting of Langen Biomed® Microplate Heat Sealer L200Pro: Temperature 175°C and Time 2.5 seconds. | | | | | | |

Technical Specification:

| Description | Specifications |
|---|--|
| Sealing Temperature | 125°C-200°C (1°C adjustable) |
| Sealing Time | 1-9 Seconds (0.1s adjustable) |
| Heating Rate | <10 Minutes (room temperature to 170°C) |
| Display | 5" TFT-LCD Touchscreen (800x480) |
| Voltage Frequency | 110-120V/220-240V 50-60 Hz ±5% |
| Fuse Rating & Size | 115 T3.15AH 250V 20x5mm 240 T1.6AH 250V 20x5mm |
| Power Consumption | 350 W |
| Storage/Transport Conditions | -10°C to +50°C 20-80%,non-condensing |
| Operating Environment Temperature Humidit Max. Altitude | +18°C to +30°C 20%-80%,non-condensing 2200m |
| Compatible Adapters | 96-well PCR plate 96-well microplates/384-well PCR plates Deep-well plates |
| Certifications | CE/UKCA/FCC |
| Dimensions | 223mm (W) x 355mm (D) X 393mm (H) |
| Weight | 8.2 kg |

Ordering information:

| Product Code | Description |
|--------------|--|
| LG-2020 | Langen Biomed® Microplate Heat Sealer L200Pro |
| LG-2011 | 96-well PCR Plate Adapter (Optional) |
| LG-2012 | 96-well Microplate/384-well PCR Plate Adapter (Optional) |
| LG-2013 | Deep-Well Plate Adapter (Optional) |
| LG-1001 | 70µm Red Heat Sealing Foil |
| LG-1002 | 20µm Green Heat Sealing Foil |
| LG-1003 | 38µm Blue Heat Sealing Foil |
| LG-1004 | 85µm Black Heat Sealing Foil |
| LG-1005 | 75µm Optical Clear Heat Sealing Film |
| LG-1006 | 105µm Optical Clear Heat Sealing Film |



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