

Living up to Life



Leica EM AC20

Automatic Contrasting Instrument for Electron Microscopy



The automatic contrasting system Leica EM AC20 features:

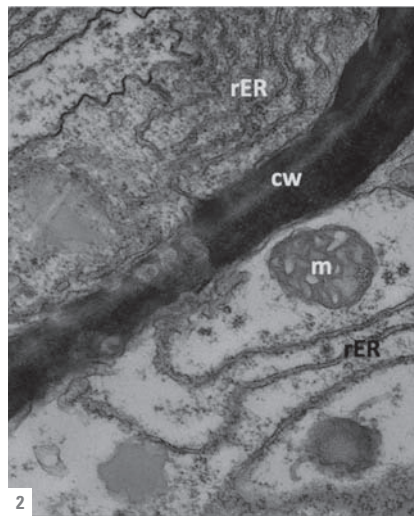
- › Precipitate-free double contrasting
- › Low reagent consumption
- › 60 runs with one set of Ultrastains
- › Low waste output
- › Short washing cycles
- › Easy maintenance



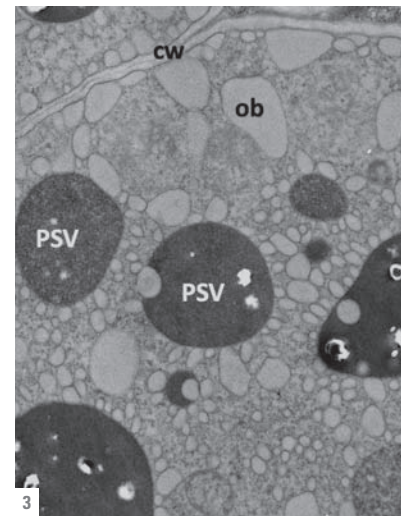
Leica Design by Werner Hölbl



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3

1 Loading grids into the contrasting chamber

2 Developing wheat endosperm cell cw- cell wall, rER-rough endoplasmic reticulum, m- mitochondria

3 Arabidopsis mature seed cw- cell wall, PSV- protein storage vacuole, ob- oil body

Courtesy: Dr. Elsa Arcalís, Department für angewandte Genetik und Zellbiologie,
Universität für Bodenkultur, Muthgasse 18, 1190 Wien

Contrast and Compare

The Leica EM AC20 is a new generation of instruments, developed in close cooperation with the scientific community, for contrasting ultrathin sections. Within the sealed chamber of the EM AC20, ultrathin sections are automatically contrasted with minimum user interface.

By contrasting up to 20 grids per run, the Leica EM AC20 speeds up laboratory routine and eliminates the tedious and time consuming tasks associated with traditional contrasting methods. Pre-packed solutions (each 200 ml) ensure excellent contrasting results without any user contact to toxic reagents. The instrument uses a peristaltic pump and non-contact valves which means the reagents travel through nothing but tubing on their way to the chamber where the grids are located.

This equals good results and easy maintenance. At the end of each run, the small volume of used reagents are separated into different waste bottles, thus making disposal easy and less expensive.

SAFE OPERATING

With the help of the loading jig, up to 20 grids are placed into the grid holder which is then inserted into the contrasting chamber. The chamber is closed with the bayonet lock and the EM AC20 is ready to contrast.

EASY TO USE

The clearly structured keyboard ensures easy programming of time and temperature for each contrasting step. Up to 10 individual programmes can be stored. A USB port allows transfer of the last contrasting run if a log-book report is required.

TRUSTED RELIABILITY

The teamwork of sensors and software avoids any user error. Follow the guidelines of the user prompt information on the screen ...press START and the Leica EM AC20 does the rest.

The statement by Ernst Leitz in 1907, “*With the User, For the User,*” describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: **Living up to Life.**

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

LIFE SCIENCE DIVISION

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems’ customers at the leading edge of science.

INDUSTRY DIVISION

The Leica Microsystems Industry Division’s focus is to support customers’ pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

BIOSYSTEMS DIVISION

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

MEDICAL DIVISION

The Leica Microsystems Medical Division’s focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

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