

## MIKRO 185 Microlitre centrifuge

Tailored to your needs: Separation technology at the workplace

With its compact dimensions, the MIKRO 185 fits easily on your lab bench. Thanks to its maximum RCF of 17,008 and a choice of four rotors, it can satisfy a wide range of requirements. All centrifugation steps required to prepare samples for molecular biology applications that do not require cooling can be performed rapidly and reliably.

NEW

### Angle rotor, 24-place



Cat. No. (with lid) 1226

### Angle rotor, 18-place



Cat. No. (with lid) 1258

### Angle rotor, 12-place



Cat. No. (with lid) 1252

### Angle rotor, 18-place, for spin column kits



Cat. No. (without lid) 1213



[www.hettichlab.com](http://www.hettichlab.com)



# Example of use: PCR



## PCR: A METHOD THAT HAS REVOLUTIONISED LAB WORK

The polymerase chain reaction (**PCR**) today is routinely used in molecular biology. By making it possible to amplify minute traces of genetic material in vitro, it has revolutionised biological research and brought about fundamental changes in analysis and medical diagnostics. Investigations of viral and bacterial DNA from different matrices (clinical samples, tissue, microbiological cultures, environmental or forensic samples) are opening up new areas of research and contributing to knowledge in diverse fields.

### PCR KITS AND SUITABLE ACCESSORIES

PCR must be carried out in many steps. To simplify the process, a number of manufacturers now offer PCR kits containing most of the necessary substances and consumables. Depending on the processed volume, a distinction is made between mini kits (microlitre range), midi / maxi kits (millilitre range) and kits for microtitre plates (96 wells). Microlitre centrifuges are essential for mini-kits. They are used for extracting the DNA/RNA, washing the derived components and drying the filter after elution. Run times and centrifugal forces differ depending on the manufacturer. The **MIKRO 185** meets the requirements of many PCR kit suppliers (see info box). For spin column kits it also has a special rotor in which the tubes can be centrifuged with open lids.



The MIKRO 185 (Cat. No. 1203) with spin column rotor (Cat. No. 1213) being used for sample preparation for PCR.

### Examples of how the PCR procedure is used in various industries

- Food analysis (demonstration of GMOs\*)
- Forensics (trace analysis)
- Transfusion medicine (detection of viruses in donated blood)
- Medical diagnostics (identification of pathogens)

\* Genetically modified organisms

### The spin column rotor 1213 is suitable for use with spin column kits from these and other manufacturers (protocols up to 15,030 x g)

- AHN Biotechnologie GmbH
- MACHEREY-NAGEL GmbH & Co. KG
- QIAGEN
- Roche Diagnostics
- Thermo Fisher Scientific Inc.

For protocols that require higher speeds, we recommend the MIKRO 200 with the 24-place spin column rotor 2428, which generates a maximum RCF of 21,382.

For product details please see

[www.hettichlab.com](http://www.hettichlab.com)

service@hettichlab.com

Tel. +49 (0) 7461 / 705-0



ZENTRIFUGEN