

Miris Products

Miris provides you with everything needed for Human Milk Analysis



MIRIS

Equipment

Miris HMA™

Art No 05-02-201

Miris HMA™ gives the energy, fat, carbohydrate, and protein content in human milk within minutes using a small sample volume.

Miris HMA™ is the only FDA cleared instrument for analysis of the macronutrient content of human milk (DEN180007, 2018) and it has been registered as an IVD in Europe since 2007. It has been used in NICUs, Milk Banks and research facilities to improve nutritional care of preterm infants for over 15 years.



Miris Ultrasonic Processor™

Art No 05-04-201

Miris Ultrasonic Processor™, a high-intensity ultrasonic liquid processor, rapidly homogenizes milk for analysis with Miris HMA.

Milk is an oil-in-water emulsion and fat separation (creaming, oiling-off) and protein aggregation are common in stored, particularly frozen, milk. The calibration of Miris HMA™ is adapted to homogenisation by Miris Ultrasonic Processor™. This method is suitable for homogenising small milk volumes as required for the Miris HMA™.



Miris Heater™

Art No 05-06-101

Miris Heater™ is a water-free system that warms milk and other solutions to the optimal temperature for analysis with Miris HMA™.

The heat-transfer beads supplied with Miris Heater™ has antibacterial coating and are easily cleaned and decontaminated using 70% Ethanol.

Miris Heater™ can be used for any size tube or bottle without the need for special holders.



Printer

Art No 05-05-101

A small printer that automatically prints the result of a Miris HMA™ analysis as it appears on the display. It easily connects to Miris HMA™ using the supplied cable with no time-consuming setup.



Consumables

Miris Calibration Control Kit™

Art No 05-07-1011

Miris Calibration Control Kit™ is a quality control material for the Miris HMA™. The kit contains two solutions, Miris Calibration Control 1 and Miris Calibration Control 2, with known concentrations of fat, protein and carbohydrate.



Miris Check™

Art No 39-01-003

Zero-setting solution for the Miris HMA™.

Miris Check™ is delivered as a concentrate which is diluted 10x in distilled or deionized water before use.



Miris Cleaner™

Art No 39-04-001

Cleaning solution to clean the cuvette of the Miris HMA™ and the probe of Miris Ultrasonic Processor™.

Miris Cleaner™ is delivered as a concentrate which is diluted 20x in distilled or deionized water before use.



Syringes

Syringe 5 ml
Syringe 2 ml

Art No 41-02-005
Art No 41-02-006

For injecting liquids into Miris HMA™. The syringes are tested for optimal fit on the inlet and outlet of the instrument.



Tubes

Tube 5 ml
Tube 10 ml

Art No 41-04-101
Art No 41-04-103

Miris provides two different tubes for milk samples. A freestanding 10mL tube, and a 5mL tube that fits in the tube holder supplied with Miris Ultrasonic Processor™. The tubes can be used throughout the milk analysis process, for storage, warming and homogenization.

