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Microwave digestion system

Microwave digestion



Microwave digestion In microwave digestion the sample is fully degraded and dissolved, typically by heating it to 200 – 260°C in closed microwave-transparent pressure vessels with an acid mixture. The new Speedwave Four microwave digestion system incorporates a pressure-rated, PFA-coated circular oven chamber, ensuring a homogeneous microwave distribution thanks to the highly symmetrical arrangement. This enables all samples to be heated evenly and facilitates a reproducible digestion quality. The top-loading concept simplifies handling. The complete heavy rotor no longer needs to be lifted and placed in the oven. Instead, the rotor remains in the oven and the vessels are simply inserted individually and removed again after digestion. The freestanding vessels in the rotor cool down with an additional cooling system within around 15 minutes, significantly raising sample throughput. Digestions vessels and lids are made from solid TFMTM-PTFE; the durability of the vessels significantly reduces the operating costs of the digestion system, since vessels need no longer be regarded as consumables. .

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