

MILESTONE MULTIPREP-41 HIGH THROUGHPUT ROTOR

The Milestone **MULTIPREP-41** is a new high throughput rotor, suitable for the microwave acid digestion of any sample requiring moderate temperature and pressure conditions – typically 200°C and 20 bar - for a full recovery of the analytes of interest.

The most typical applications of the **MULTIPREP-41** include the sample preparation of environmental samples (soil, sludge, waste water - according to the US EPA methods 3015a, 3051a and 3052-, filters), of biological samples (tissues, food, feed, plants, agriculture products), and many others, such as paint chips and mineral leaches.



The **MULTIPREP-41** combines the highest flexibility of operations with the highest sample throughput available from the market.

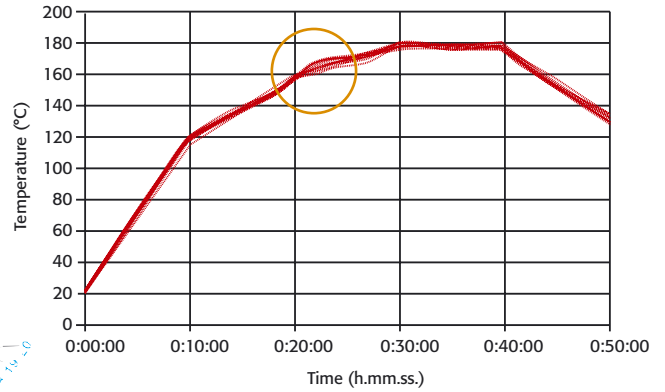
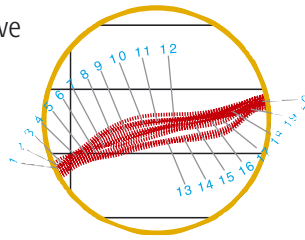
- Highest throughput, runs up to 41 samples simultaneously
- Unsurpassed ease of use
- No tools for capping/uncapping
- Easy samples weighing and vessels cleaning
- Direct and external temperature control with individual temperature profiles
- Temperature homogeneity across vessels
- Pressure control in all vessels
- 'Vent-and-reseal' technology for pressure release
- Inherent safety

DIGESTION QUALITY ASSURANCE

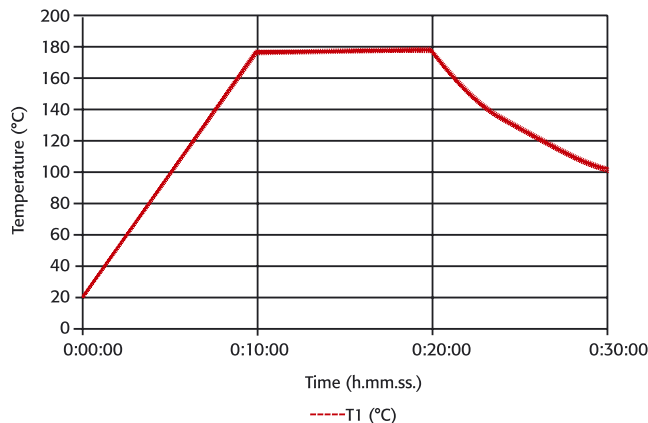
With the MULTIPREP-41 it is possible to monitor and control the digestion temperature of the vessels.

The graphic shows the acid digestion of a NIST SRM 1573a Tomato Leaves sample, with individual temperature profile for all vessels used.

A clear benefit for the quality assurance of the microwave sample preparation process.



NIST SRM 2711 Montana Soil.



Samples weight 500 mg. Reagent 10 ml HNO₃. All concentrations in µg/kg, *except Fe which is in wt %.

Element	MULTIPREP-41	Certified value
As	108	105 ± 8
Cd	42,7	41,7 ± 0,25
Cu	117	114 ± 2
Fe*	2,84	2,89 ± 0,06
Hg	6,1	6,25 ± 0,19
Ni	21	20,6 ± 1,1
Se	1,55	1,52 ± 0,14
Zn	363	350,4 ± 4,8



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