

UV DIGESTER HMUV1825



The HMUV1825 is an aqueous sample digester designed to break down highly organic ground and surface water samples for subsequent analysis with the Metalyser HM series instruments. The digester uses dual wavelength technology housed in a safety-interlocked enclosure, complete with integrated pump for optimum efficiency and replaceable UV lamp.

SPECIFICATION

POWER SUPPLY	220-240VAC 50/60Hz 20W IEC Fused mains inlet.
UV LAMP	185nm/254nm Wavelength, 4 Watt
SAMPLE VOLUME	50 - 250 ml
SAMPLE TYPE	Potable, surface and ground water
INTENDED USE	Digestion of water samples for subsequent detection of Heavy metal content (Not suitable for water disinfection)
SAMPLE PUMP	Peristaltic pump - 12ml/min flow rate
SAMPLING TUBE	4mm O/D 2mm ID Tygon tubing

Supplied with: 5 Sample beakers, UK IEC Mains lead, 0.5m Tygon tubing

FEATURES

- Integrated peristaltic pump with Tygon tubing
- Countdown timer with Alarm
- IP65 Safety interlocked enclosure
- Variable sample volume
- UV lamp indicator
- Replaceable lamp

APPLICATION

Surface and ground waters can contain complex organic compounds from vegetation, animals, biological effluents, soils etc. These organic compounds form bonds with metal ions which can later be released into the food chain. The Metalyser series of instruments measure the metal content in the water, however, it is not possible to measure the organically bound metal content.

Figure 1 shows a voltammogram for a typical river sample containing low levels of Cadmium and Lead. The hump in the graph indicates the presence of the metals but is not quantifiable.

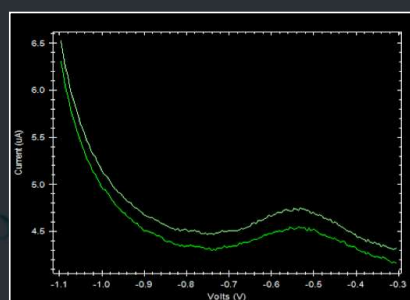


FIGURE 1

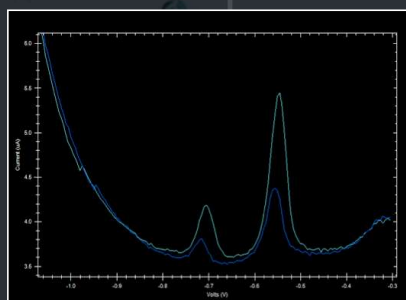


FIGURE 2

Trace2o has developed the HMUV1825 digester to break down the organic compounds and in doing so release the heavy metals back into the water. Figure 2 shows the voltammogram for the sample after 30 minutes digestion. The hump has now separated into two sharp peaks for each of the metals which are quantifiable.

ORDERING INFORMATION

► UV Digester HMUV1825 - Laboratory

Aqueous sample digester designed to break down highly organic ground and surface water samples, for subsequent analysis with laboratory Metalyzers. 220-240V

► UV Digester HMUV1825P - Portable

Aqueous sample digester designed to break down highly organic ground and surface water samples, for subsequent analysis with laboratory Metalyzers. Battery powered.



HMUV1825



HMUV1825P

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