

Eppendorf Certificate

Certificate of Quality

Detection Consumables- Typical values of trace metal release

The values in the table indicate typical values of trace metal concentrations which are obtained after incubating Detection Consumables with concentrated nitric acid for 1 hour (see: Materials and methods).

As the indicated values were determined in a one-time measurement, they cannot be guaranteed for every lot of Detection Consumables. Rather, the values indicate the extent of trace elements, that can be eluted from Detection Consumables.

	Trace metal release [ng / µL]								
	Al	Cd	Cr	Cu	Hg	Mn	Ni	Pb	Zn
UVette®									
220 - 1.600 nm	<0,0010	<0,00002	<0,00005	<0,00010	<0,0010	<0,00005	<0,00005	<0,00005	<0,0010
Vis-Cuvettes									
Macro	<0,0010	<0,00002	<0,00005	0,00025	<0,0010	<0,00005	<0,00005	<0,00005	<0,0010
Semi-micro	<0,0010	<0,00002	<0,00005	<0,00010	<0,0010	<0,00005	0,00011	<0,00005	<0,0010

Materials and Methods

The Detection Consumables were filled with their nominal volume with concentrated nitric acid (65 %), respectively and incubated for 1 hour at room temperature (20 °C). The eluates were then analyzed by inductively coupled plasma-mass spectrometry (ICP-MS). The trace metal concentrations are expressed in ng/µL. The values are the average of three individually analyzed samples. All values labeled with "<" indicate concentrations below the detection limit of the ICP-MS method. No metal release was observed after 5-10 rinsings with concentrated nitric acid or after rinsing with 10 % acetic acid or water.

All analyses were performed by GALAB Laboratories, Geesthacht, Germany accredited to DIN EN ISO/IEC 17025.

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ISO 9001
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