

Eppendorf Certificate

Certificate of Quality

Cell Imaging Consumables: Typical values for trace metals

The values in the table indicate typical values of trace metal concentrations which are obtained after incubating Eppendorf Cell Imaging Dishes with ultrapure water (UPW) for 72 hours at 40°C (see: Materials and Methods) and with concentrated nitric acid (HNO₃) for 24 hours at room temperature, respectively. As the indicated values were determined in a one-time measurement, they cannot be guaranteed for every lot of Eppendorf Cell Imaging Consumables. Rather, the values indicate the extent of trace elements, that can be eluted from the dishes. As the same raw material and production process is used for the production of Eppendorf Cell Imaging Consumables similar values can be expected for other formats.

Cell Imaging Dish	Trace metal release [ng/μL]								
	Al	Cd	Cr	Cu	Hg	Mn	Ni	Pb	Zn
170 μm (HNO ₃)	0,0045	<0,00002	<0,00005	<0,00010	<0,0010	<0,00005	<0,00005	<0,00005	0,0148
170 μm (UPW)	<0,0010	<0,00002	<0,00005	<0,00010	<0,0010	<0,00005	<0,00005	<0,00005	0,0161

Material and Methods

Eppendorf Cell Imaging Dishes were filled with their nominal volume with either ultrapure water and incubated for 72 hours at 40°C or with nitric acid for 24 hours at room temperature. The incubated ICP-MS). The trace metal concentrations are expressed in ng/μL. The values are the average of three samples individually analyzed. All values labeled with "<" indicate concentrations below the detection limit of the ICP-MS method. No metal release was observed after 5 to 10 times rinsing 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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