

Eppendorf Certificate

Certificate of Quality

Eppendorf Deepwell Plates; Typical values for trace metal

The values in the table indicate typical values of trace metal concentrations which are obtained after incubating Eppendorf Deepwell Plates with conc. 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 Deepwell Plates. Rather, they give the customer an idea to what extent trace elements can be eluted from the Plates.

Material	Deepwell Plate	Al	Cd	Cr	Cu	Hg	Mn	Ni	Pb	Zn	Mg	Ca
Eppendorf Quality/Sterile	384/200 µl	0,049000	0,000030	0,001100	0,003800	<0,001	0,000920	0,000620	0,001020	0,014000	0,035200	0,186000
	96/500 µl	0,027591	0,000017	0,000619	0,002140	<0,001	0,000518	0,000349	0,000574	0,007883	0,019821	0,104735
	96/1000 µl	0,027297	0,000017	0,000613	0,002117	<0,001	0,000513	0,000345	0,000568	0,007799	0,019609	0,103617
	96/2000 µl	0,021787	0,000013	0,000489	0,001690	<0,001	0,000409	0,000276	0,000454	0,006225	0,015651	0,082702
Protein LoBind	384/200 µl	0,008000	<0,00002	0,000110	0,000400	<0,001	0,000140	0,000070	0,000160	0,013000	0,003100	0,033000
	96/500 µl	0,004505	<0,00002	0,000062	0,000225	<0,001	0,000079	0,000039	0,000090	0,007320	0,001746	0,018582
	96/1000 µl	0,004457	<0,00002	0,000061	0,000223	<0,001	0,000078	0,000039	0,000089	0,007242	0,001727	0,018384
DNA LoBind	96/200 µl	0,015000	0,000030	0,000130	0,000700	<0,001	0,000420	0,000070	0,000100	0,007000	0,005400	0,027000
	96/500 µl	0,008446	0,000017	0,000073	0,000394	<0,001	0,000236	0,000039	0,000056	0,003942	0,003041	0,015203
	96/1000 µl	0,008356	0,000017	0,000072	0,000390	<0,001	0,000234	0,000039	0,000056	0,003900	0,003008	0,015041

Material and Methods:

The indicated Eppendorf Deepwell Plates were filled with their nominal volume with conc. nitric acid (65%) and incubated for 1 hour at room temperature (20° C). The nitric acid was 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 samples individually analyzed. The trace metal release of the remaining Plates were calculated from their surface/volume ratio. 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 conc. nitric acid or after rinsing with 10 % acetic acid or water. (All analyses were performed by GALAB Laboratories, Geesthacht, Germany accredited to DIN ISO/EC 17025).

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