

PURIC- α Water Information

Metal analysis for Puric- α ultrapure water

Ultrapure water is used for various purposes such as making blank water and eluent, adjusting reagents, and washing instruments. Inorganic analysis using ICP-MC, IC or others should need ultrapure water in which metal elements are extremely removed. We introduce the result of Puric- α ultrapure water analyzed by ICP-MS/MS in our R&D.

- Ultrapure water equipment: PR-FP-0120 α -MT1 (ORGANO)
Water dispenser: DS- α -001(ORGANO)
- Analytical equipment: ICP-MS/MS 8800 (Agilent Technologies)
- Clean room environment: USA regulation (Fed.Std.209E) Class 1000
ISO 14644-1:Class 6
- Sampling conditions: Puric- α is set in a clean draft chamber in a clean room. Ultrapure water is collected from Puric- α dispenser after 5 minutes-water blow.



Analysis results

Element	Concentration (ppt)	Element	Concentration (ppt)
Sodium	<3	Nickel	<3
Potassium	<3	Lead	<3
Calcium	<3	Manganese	<3
Magnesium	<3	Aluminum	<3
Iron	<3	Cobalt	<3
Copper	<3	Total chromium	<3
Zinc	<3	Lithium	<3
Cadmium	<3		

* No Guaranteed data, for reference only.

Summary

All the elements analyzed shows below 3ppt.
 α dispenser adopts the control valve with minimized metal elution at the wetting parts.
 Hence, Puric- α can stably produce ultrapure water suitable to inorganic analysis..

* For extreme trace metal analysis, in case Boron and Silica would be concerns, we recommend Puric- ω series.



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