

PURIC- α Water Information

Evaluation for ultrapure water by Ion chromatography

For Ion chromatography, ultrapure water is used for adjusting reagent or eluent, and blank measurement, etc. If the ultrapure water contains some impurities, ghost peaks or the noise of baseline would appear, and affect the accuracy of the analysis. We hereby shows the analysis result for PURIC- α ultrapure water, conducted by the latest Ion chromatography IC-8010(TOSOH).

*Based on JIS (Japan Industrial Standards) K 0127 (Ion chromatography general rule), it is written that more than A2 to A4 grade water defined in JIS K 0557 is required for eluent and working solution according to analyzing purposes.

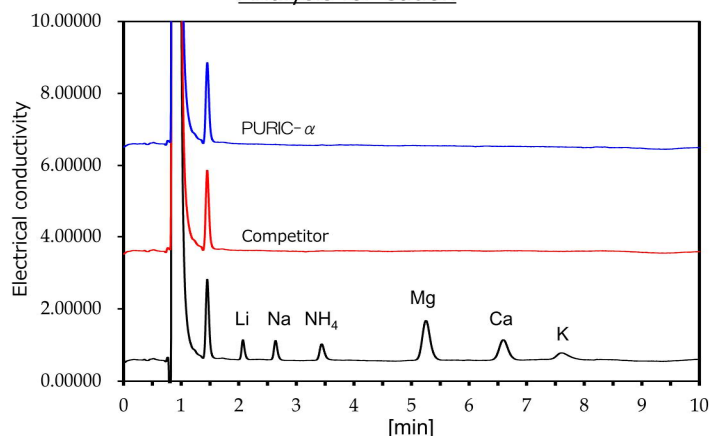
Ultrapure water production equipment
PR-FP-0120 α -MT1 (ORGANO)



Analysis equipment
Ion chromatograph IC-8100 (TOSOH)

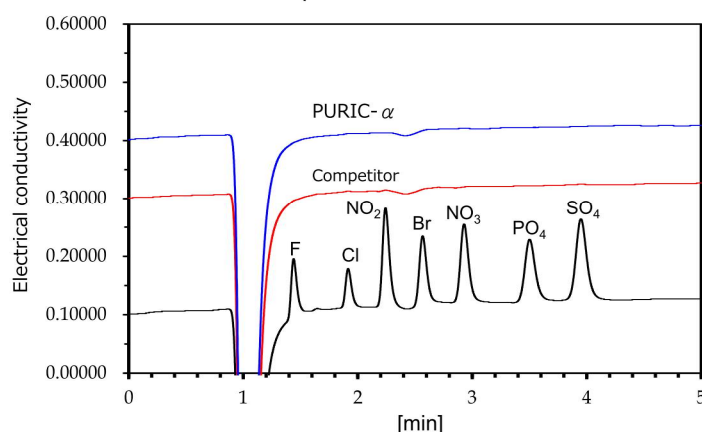


Analysis for Cation



Condition (Cation)
Column : TSKgel SuperIC-Cation HS II (4.6mm I.D.×1cm+4.6mm I.D.×10cm)
Eluent : 3.0 mmol/L MSA+2.7 mol/L 18C6E Flowrate : 1.0 mL/min
Temp : 40 °C Inj.Vol. : 30 μ L Detection : CM (non-suppressor)
STD(mg/L) : Li:0.025 Na:0.1 NH₄:0.1 Mg:0.25 Ca:0.25 K:0.25

Analysis for Anion



Condition (Anion)
Column : TSKgel SuperIC-Anion HS (4.6mm I.D.×1cm+4.6mm I.D.×10cm)
Eluent : 3.8 mmol/L NaHCO₃+3.0 mmol/L Na₂CO₃ Flowrate : 1.5 mL/min
Temp : 40 °C Inj.Vol. : 30 μ L Detection : CM (suppressor)
STD(mg/L) : F:0.031 Cl:0.031 NO₂:0.16 Br:0.16 NO₃:0.16 PO₄:0.31 SO₄:0.16

Result summary

Puric- α ultrapure water shows the equivalent quality with the competitor for Cation and Anion data, which proves it is suitable for Ion chromatography. Furthermore, Puric- α ultrapure water shows below TOC 1ppb while the competitor shows 2.7ppb, which means PURIC- α would be proven to achieve lower TOC stably.

Data supplied by TOSOH Bioscience

ORGANO CORPORATION

2-8, Shinsuna 1-Chome, Koto-ku, Tokyo, 136-8631, Japan
Standard Equipment Dept.
<https://www.organo.co.jp/english>

Product movie



YouTube



Subscribe

