

Case example of the measurement using Puric ω ultrapure water

(Analysis example of TOC (Total organic carbon) analyzer)

Case example of measuring blank water by TOC analyzer

Shimadzu Corporation (Kyoto Laboratory) evaluated Puric ω ultrapure water as blank water for TOC analysis.

Analysis conditions

Analysis device : Wet Oxidation TOC Analyzer “TOC-Vws” (Shimadzu)
Analysis method : TOC (NPOC) measurement is conducted for 1L bottle of Puric ω ultrapure water by IC removal method of oxidation aeration process.

[Reference]

The Japanese Pharmacopoeia 17th edition, 2.59 Test for TOC, 2. Reagents and standard solutions , (i) Water for measuring organic carbon (water for measurement): When collected into a sample container for TOC analysis with the water used for preparing standard solutions or decomposition aid or for rinsing the instrument, the amount of organic carbon in this water, should be not more than 0.250 mg/L (250 μ gC/L).

*Less than 100 μ gC/L for USP and EP.

Measurement results of TOC value by TOC-Vws

- ✓ Sample 1: 10.30 μ gC/L
- ✓ Sample 2: 10.13 μ gC/L

About the analysis results

It was confirmed that the measurement values are much less than the standards of water for measurement of the Japanese Pharmacopoeia. Though the results are the values containing organic substances in the air, Puric ω ultrapure water is equivalent to the quality of competitors. It can prove that Puric ω ultrapure water can be used for blank water for TOC-Vws.

While built-in TOC meter in a competitor's ultrapure water equipment displays 3 μ gC/L, Puric ω only displays 1 μ gC/L. It should show the notable feature of Puric ω , which is able to achieve low TOC continuously.

User comment...

The users commend for Puric ω to be able to adjust water dispensing speed by 5 steps from a single drop by handy dial, while competitors can only have 3-steps adjustment. It is the effect of the special designed nozzle (patented) which can change smoothly from a drop to maximum rate.



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