

DATA BULLETIN

*TOC analysis of mineral water with the **acquray**[®] TOC*

The total organic carbon (TOC) content is one of the standard parameters which is routinely determined in mineral water. The **acquray** TOC is designed for this task and operates according to the international standard ISO 8245 on "Water quality – Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC)"

Mineral water samples, which have been produced by different manufacturers, were analyzed each six times. The mineral water bottles have been bought in a supermarket close to the Elementar headquarter.

The direct mode (determination of NPOC after removing the TIC by acidification and sparging) was used to analyze the TOC concentrations of the samples. Therefore, the samples were acidified externally with phosphoric acid in order to remove the TIC from the samples.

ORIGIN OF THE MINERAL WATER	TOC [mg/l]	SD [mg/l]
East France	0.151	0.015
North Germany	0.602	0.012
Fiji	0.140	0.006
North East France	0.102	0.017
Central France	0.269	0.006
South Germany	0.244	0.009
Central Germany	0.145	0.010

The relatively low TOC content of all mineral water samples could be determined with a very high precision.

The **acquray** TOC cube is a perfect instrument for the analysis of TOC in mineral water and fulfills the requirements of the international standard ISO 8245 on "Water quality – Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC)".

INSTRUMENT:
acquray[®] TOC

DETAILS:
carrier gas: nitrogen
sample: 40 ml mineral water



STANDARD:
ISO 8245

Elementar Analysensysteme GmbH
Elementar-Straße 1
63505 Langenselbold (Germany)
phone: +49 (0) 6184 9393-0
info@elementar.de | www.elementar.de

