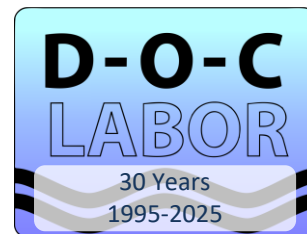


DOC-LABOR GmbH

DOC-Characterisation of Natural and Technical Waters
Humic Substances Analysis
Ultrapure Water Analysis / Ultrapure Chemicals Analysis
LC-OCD-OND Components



Sampling and Shipping (2026-07-23)

Raw waters, Pre-Treatment and Demineralized waters > 50 ppb TOC

The minimum sample volume is 40 ml. Glass or plastic (PP, PE, PET) flasks are suitable, as long as the closures are not lined with rubber or polyurethane foam. If you are not sure whether the flasks are clean, you may apply the soaking routine described below. On-site available 250 ml or 500 ml PET bottles filled with non-carbonated, low mineral water also work well and are very convenient.

Ultrapure (UPW) and Demineralized waters < 50 ppb TOC

- Use borosilicate glassware, e.g. Schott 1L flasks with GL45 Teflon-lined closures in red or white. Avoid blue PP caps, as they can leach organics.
- Soak flasks and closures in UPW or lab water for at least 3 days in the dark. Desorption of any residual organic contaminants drops off sharply over time, so this "3-day soak" gives sufficient confidence that the surfaces are organic-free. Keep the flasks – full or rinsed – in the dark until the day of sampling; they will still be wet inside. For drying, ambient air or a heating cabinet can be used on the outside, but the interior should remain wet: any drying step risks contaminating the inside of the flask, and this is intentional and acceptable.
- Do not label flasks with felt-tip pens. Use adhesive tape or labels instead, with all necessary information.
- On-site sampling: before opening the flask, decide where to place the closure upside down. Do not touch the dispenser ring or the glass thread. Fill the flask twice to about 30% of its volume with the sample, close, shake, and discard. Rinse, then begin sampling – try to hold your breath. Leave some air space before closing the flask.

General Note for Sampling

On the day of sampling, the person collecting the sample must not wear perfumes, hair conditioner, cream, or similar products. The sampler must also not speak, sneeze, or cough during sampling.

These rules are strict because they prevent avoidable contamination of the samples

Sample Preservation

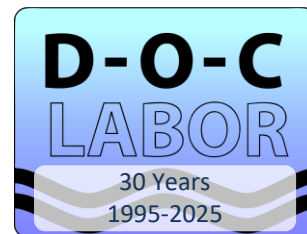
Organics are generally stable at ambient temperature and do not change during transport, so samples require no special treatment. The only real risk is microbial degradation — this is why samples are sometimes shipped in insulated boxes with cooling devices. Note that cooling packs only work inside an insulated box; in an uninsulated box, they have no effect.

Technical waters, including pre-treatment and town waters, typically show low bacterial activity, so their organic content remains essentially unchanged for the first few days.

Wastewater sampled prior to biodegradation is the exception: here we recommend pasteurizing the closed sample flasks at 60–80 °C for 30 minutes to 2 hours. A hot water bath on-site (e.g., a kettle) with a temperature indicator is sufficient for this.

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Packing and Shipping

All flasks and bottles must be taped and then wrapped in adequate soft material to protect them against impact during transportation (50 ml: 0.5 cm, 100 ml: 1 cm, 500 ml: 5 cm)

Based on our experience, we ask that you use only one of these forwarders: FedEx, UPS or DHL.

Samples should ideally reach our laboratory within 2–3 days of sampling. For longer transit times or when shipping heavily loaded samples during warm months, pasteurization prior to shipping is recommended.

Please send us the tracking ID by email to: doc@doc-labor.com

Our delivery address is the following:

Name:	DOC-Labor GmbH
Street & No:	Eisenbahnstraße 6
Zip-Code/City:	76229 Karlsruhe
Country:	Germany

For customs

- Declare raw waters as “Ordinary, natural, water for analysis of no commercial value” (customs tariff number: 25010010); otherwise, this can cause problems with local food authorities.
- Declare ultrapure water as “Ultrapure water for analysis of no commercial value” (customs tariff number: 28530010).
- The commercial value of the shipment must stay below 20 € or 20 USD, otherwise tax may be imposed.
- Make sure all customs documents are filled out completely and correct – errors can cause delays.
- A waybill or commercial invoice is required for the package .
- Use Incoterm: **DDP**
- Our EORI-Number: DE3339 2016 1553 684
- All documents must be placed in a document pouch on the outside of the package. We recommend labeling it “Customs Documents enclosed.”

For any further questions or special sample types, please do not hesitate to reach out.

Your DOC-Labor GmbH team