

Suggestions for Sampling and Shipping (2016-03-21)

Ultrapure Waters (UPW)

- Use borosilicate glassware, e.g. Schott 100 mL or 250 mL with GL45 caps.
- Soak "clean" or "new and unused" flasks and caps in a 10L DEMIN water bath for 3 days in the dark. As desorption of potentially present organic contaminants decreases rapidly with time, the "3-days-soak" should give enough confidence for contaminant-free flasks.
- Rinse and close flasks with caps (wear non-powdered gloves). **The flasks are still wet inside and we should tolerate this. A drying process may contaminate the flask.**
- For labeling of flasks do not use felt pens. Label flasks with stickers or tape containing all necessary information.
- On the day of sampling the sampling person must not wear perfumes, hair conditioners, creams etc.
- Sampling person must not speak, sneeze or cough during sampling!
- Sampling at site: Before opening of flask think where to put the cap. Do not touch dispenser ring or glass thread. Rinse flask 2 times with sample, close, shake and discard. Start sampling, allow some air space and close flask. Try to prevent dispenser ring from getting wet

Raw Waters, Pre-Treatment

This is less critical, minimum sample volume is 10 mL only. Glass or plastic (PP, PE) bottles can be used, but caps should also not be lined with rubber or foam. If you are not sure whether bottles are clean you may adopt the same soaking routine described above.

For sampling the same precautions described above are recommended.

Sample Preservation

Generally, organics are stable at ambient temperatures and do not alter during transport.

Therefore, DO NOT treat samples in any way. The only danger is microbial degradation and this is the reason why samples are sometimes shipped in insulated boxes with cooling devices (cooling devices alone are useless). Technical waters, including waters from pre-treatment and town waters are usually low in bacterial activity and organics remain more or less unaltered for the first few days.

ONLY for waste waters we recommend pasteurization (60°C - 80°C) for 30 min – 120 min.

Packaging

Each flask must be wrapped and taped with a soft material (minimum thickness: 50mL: 0.5cm; 100mL:1 cm, 500mL: 5cm).

Shipping

We recommend international couriers (FedEx, TNT, UPS). For customs, declare goods as **"Deionized technical waters for analysis of no commercial value"** (Customs Tariff number 28530010). Drinking waters may be classified as food stuff and this may cause trouble at customs and health authorities.

The commercial value of shipment should be below 20 €, otherwise TAX may be imposed.

For most industrial countries samples arrive in our lab within 2 days. Do not mark a specific time of delivery – this will be expensive and is not necessary; delivery is usually in the morning.

Shipping address

Company:	DOC-Labor Dr. Huber
Street / No:	Eisenbahnstrasse 6
ZIP Code / City:	76229 Karlsruhe
Country:	Germany