

QUICK REFERENCE FOR COLLECTING POOL WATER SAMPLES

On-site samples must be collected and on-site analyses must be carried out in accordance with CNESST requirements.

Microbiological analyses

SPECIAL PRECAUTIONS



1 Start with the samples intended for **microbiological analysis**.



2 Use the **sterile containers** provided by the laboratory (**do not rinse them**).



3 **Wash your hands** thoroughly before collecting (up to the elbows).



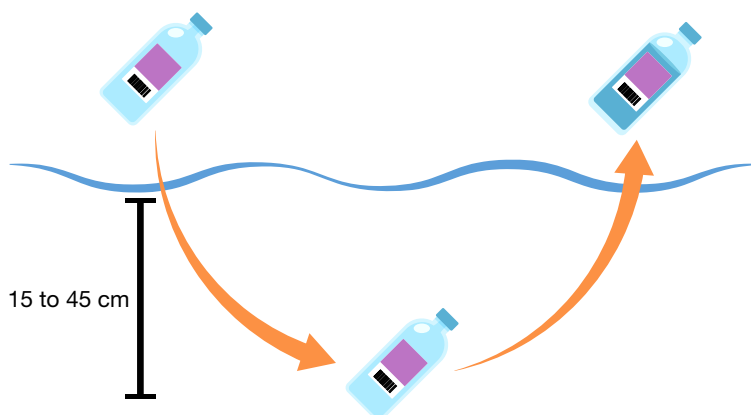
4 Leave an air space of at least **2.5 cm** between the surface of the liquid and the cap.



5 Cool the samples in a **refrigerator** or in a **cooler** containing refrigerants, but do not freeze them.

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| Sampling period | Collect samples during regular operating hours . |
| Sampling site | Collect the samples in an area with low bather traffic, between the filtration system outlet and the water return . |
| Sampling depth | Collect the samples at a depth of 15 to 45 cm below the water surface. |
| Sampling angle | Submerge the container in the basin water at an angle of about 45° , in a single motion (figure 1) , in the direction opposite to the sampler . |
| Thermometer | Use a thermometer that is in good working condition (intact, readable scale, etc.). |

FIGURE 1: COLLECTING A SAMPLE FOR MICROBIOLOGICAL ANALYSIS



SPECIAL PRECAUTIONS



Always use **devices or instruments that have been calibrated** at a frequency specified by the manufacturer.



Follow all **instructions provided by the manufacturer** of the measurement kits.*



Use products and reagents before their **expiration date**.

SAMPLING METHOD

| | |
|-----------------------|---|
| Sampling period | Collect the samples during regular operating hours . |
| Sampling site | Collect the samples in an area with low bather traffic, between the filtration system outlet and the water return . |
| Sampling depth | Collect the samples at a depth of 15 to 45 cm below the water surface. |
| Use of sampling cells | It is recommended that you rinse the cell twice with pool water before refilling it and taking the measurement. Wipe the measurement cell with a clean, soft cloth and ensure that it is clean, dry, and in good condition . |
| Dilution | If the measured concentration of the residual disinfectant exceeds the upper limit of the kit, perform a dilution (figure 2), then multiply the result obtained by the dilution factor. |
| Chloramine | Evaluate the concentration of chloramines by calculating the difference between the measurement of total residual chlorine and that of free residual chlorine. |

* In case of a discrepancy between the manufacturer's instructions and the requirements of the Regulation or document *Sampling, preservation and analysis methods for samples related to the assessment of swimming pool and other artificial pool water quality*, the latter two documents take precedence.

FIGURE 2: DIAGRAM ILLUSTRATING THE DILUTION TECHNIQUE

