

Buffer preparation

Buffers may vary in composition, pH, volume and concentration but are always produced in the same way.

Materials

Measuring cylinder
Buffer components
MilliQ Water
0,22 U Filter

Instruments:

pH measuring instrument
Magnetic stirrer
Vacuum pump
Libra

Procedure

Filling the measuring cylinder with MilliQ water (4/5 of the final volume)
Weighing in buffer components
Adding the components while stirring
Adjust the pH value using a pH meter while stirring
Fill residual volume with MilliQ water
Filter buffer with 0. 22 u filter
Degas buffer if necessary
Store buffer at 4°C

Trouble shooting

In the case of components that are difficult to dissolve, careful addition must be taken into account.
Attention should be paid to unstable substances such as DTT which should be added fresh.