An important basic pre-requisite for high result reliability is regular checking of the entire analysis system: pipettes, photometer, reagents and general handling. This check is made considerably easier by the AQA system ADDISTA.

**Error Sources During Analysis**

**Direct Influences On The Analysis Result**

- **Pipetting error (incorrect volume)**
  - Check pipette volume with pipette checking set LCA 722
- **Sample clearly coloured**
  - Measure sample specific blank value (SBV)
- **Solution in the cuvette is noticeably turbid**
  - Digestion and measurement
  - Filter using membrane filtration set (LCW 904 or LCW 916) and repeat the measurement
- **Influence of interfering ions; reaction time/reaction temperature not being adhered to**
  - Observe analysis instruction (reaction conditions) precisely and repeat analysis if necessary
- **Concentration above or below the measuring range**
  - Perform dilution or spiking, with ADDISTA, plausibility check and compare the result with the original result
- **Contaminated cuvette**
  - Perform dilutions for plausibility check or set up test with a higher or lower measuring range if necessary
  - Clean the cuvette

**Important Information**

**Filtration:** May only be performed for parameters that are generally completely dissolved: e.g. NO₂⁻-N, NO₃⁻-N, NH₄⁺-N etc., Recommendation: membrane filtration set LCW 904 (1.2 μm) or LCW 916 (0.45 μm).

**Digestion:** Perform for all metal determinations with the LCW 902 CRACK SET.

**SBV:** Sample specific blank value must be performed for samples with strong intrinsic colouring (see document, Sample Specific Blank Value, DOC042.52.00280).

Contact us: 0161 872 1487
info@hach-lange.co.uk
www.hach-lange.co.uk