APC304
Ammonium-Nitrogen
MR 0,015 – 2,0 mg/L NH_4-N / 0,02 – 2,50 mg/L NH_4

DOC312.53.94337

Principle
Ammonium ions react at pH 12,6 with hypochlorite ions and salicylate ions in the presence of sodium nitroprusside as a catalyst to form indophenol blue.

Range of Application
Surface water, waste water, drinking water, swimming bath water

Interferences

T1

1000 mg/l:	Cl^-, SO_4^{2-}
500 mg/l:	K^+, Na^+, Ca^{2+}
50 mg/l:	CO_3^{2-}, NO_3^-, Fe^{3+}, Cr^{3+}, Cr^{6+}, Zn^{2+}, Cu^{2+}, Co^{2+}, Ni^{2+}, Hg^{2+}
25 mg/l:	Fe^{2+}
10 mg/l:	Sn^{2+}
5 mg/l:	Pb^{2+}
2 mg/l:	Ag^+

The ions listed in T1 have been individually checked up to the given concentrations and do not cause interference. We have not determined cumulative effects and the influence of other ions.

Primary amines are also determined and cause high-bias results. A10000-fold excess or urea does not interfere. All reducing agents interfere and cause low-bias results.
A large excess of ammonium can cause result displays within the measuring range. It is advisable to carry out a plausibility check by making dilutions.
The measurement results must be subjected to plausibility checks (dilute and/or spike the sample).

Sample Volume	**4 mL**
Sample/sample cuvette temperature	**20°C**
pH sample	**4 - 9**

Method Library:
APC304 is pre-programmed in the method library. Please check under Settings/Software/Application/Methods **Ammonium** and Tests **APC304**
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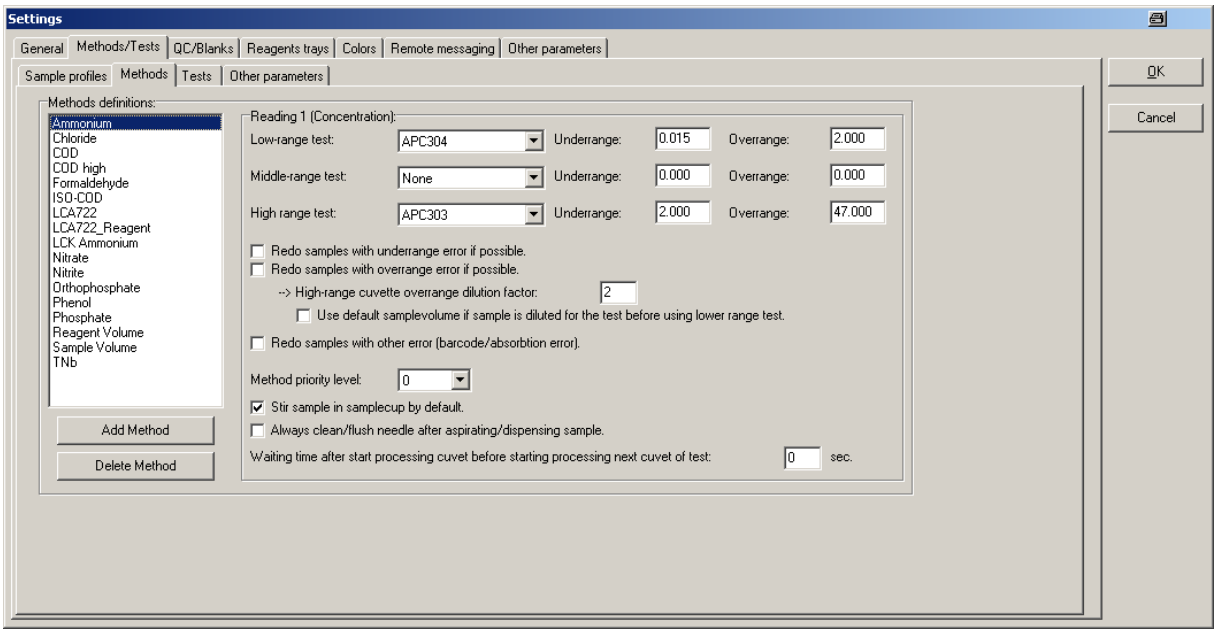

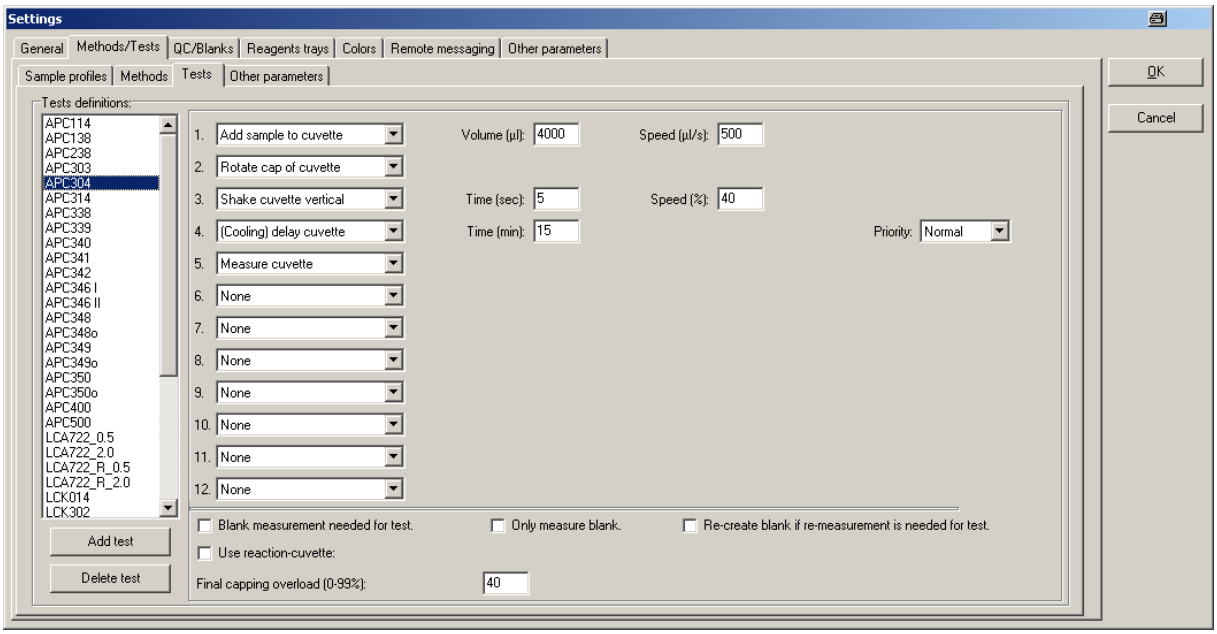

Run the APC 304 Ammonium method

Create a Run like described in the QUICK GUIDE

- Place the APC304 cuvettes according to the settings in the Software in the cuvette racks.
- Place the samples according to the settings in the Software in the sample racks
- Check if enough Rinsing/Dilution water is available
- Initialize the AP 3900 multi and the Dispenser

HACH LANGE GMBH
Willstätterstraße 11
D-40549 Düsseldorf
Tel. +49 (0) 2 11 52 88-0
Fax +49 (0) 2 11 52 88-143
info-de@hach.com
www.hach.com