

# American MasterTech

scientific laboratory supplies

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## Formaldehyde Test

## 1. Method

Formaldehyde reacts with 4-amino-3-hydrazino-5-mercapto-1,2,4-triazole to form a purple-red-tetrazine. The formaldehyde concentration is measures **semiquantitatively** by visual comparison of the reaction zone of the test strip with the fields of a colour scale.

## 2. Measuring range and number of determination

Measuring range/ colour-scale graduation	Number of determinations
10-20-40-60-100 mg/ I HCHO	100

## 3. Applications

#### Sample material:

Disinfectant and rinsing solutions (e.g. laundries) Aqueous solutions

## 4. Influence of foreign substances

This test also reacts to other aldehydes (e.g. acet-aldehyde, albeit with a lower sensitivity and with a different colouration of the reaction zone.

Strong reducing and oxidizing agents interfere with the determination.

## 5. Reagents and auxiliaries

Please note the warning on the package materials!

The test strips are stable up to the date stated on the pack when stored in the closed tube at +2 to +8° C

## Package contents:

Tube containing 100 test strips 1 bottle of reagent Fo-1 1 test vessel

## 6. Preparation

Samples containing more than 100 mg/l HCHO must be diluted with distilled water

#### 7. Procedure

Rinse the test vessel several times with the pretreated sample.		
Pretreated sample (15 – 30°C)	5 ml	Fill the vessel to the 5 ml mark.
Reagent Fo-1	10 drops 1)	Add and swirl
Immerse the reaction zone of the test strip in the measurement sample for <b>1 sec.</b>		
Allow excess liquid to run off via the long edge of the strip onto the absorbent paper towel and <b>after exactly 60 sec</b> determine with which colour field on the label the colour of the reaction zone coincides most exactly.		
Read off the corresponding result in mg/l HCHO or, if necessary, estimate an intermediate value.		

<sup>1)</sup> Hold the bottle vertically while adding the reagent!

#### Notes on the measurements:

- The colour of the reaction zone may continue to change after the specified reaction time has elapsed. This must not be considered in the measurement.
- If the colour of the reaction zone is equal to or more intense than the darkest colour on the scale, repeat the measurement using **fresh**, diluted samples until a value of less than 100 mg/l HCHO is obtained.

Concerning the result of the analysis, the dilution (see also section 6) must be taken into account:

Result of analysis = measurement value x dilution factor

## 8. Notes

- Reclose the reagent bottle and the tube containing the test strips immediately after use.
- Rinse the test vessel with water only.