

Application note

30.04.2024, LSt

# Determination of peroxide in yogurt

Overview	
Parameter	Peroxide
Test	QUANTOFIX® Peroxide 25 (REF 91319)
	QUANTOFIX® Peroxide 100 (REF 91312)
Gradation	0 · 0.5 · 2 · 5 · 10 · 25 mg/L H <sub>2</sub> O <sub>2</sub> (REF 91319)
	0 · 1 · 3 · 10 · 30 · 100 mg/L H <sub>2</sub> O <sub>2</sub> (REF 91312)
Sample material	Yogurt
General information	QUANTOFIX® Peroxide test strips determine peroxide by the oxidation of an organic redox indicator. Peroxide-based disinfectants are widely used in industries like dairy and food. To make sure that the final products are not contaminated with peroxide residues, QUANTOFIX® Peroxide test strips are an easy way not only to test the rinsing fluids but also the product itself.



## Instructions

### Sample preparation

1. Homogenize yogurt sample by stirring or shaking thoroughly.
2. Ensure that the sample is at room temperature.

### Execution

3. Immerse the test strip. Immediately dab the yogurt carefully and thoroughly from the reaction zone with a tissue. Alternatively: Use demineralized water to rinse the yogurt from the reaction zone carefully.

### Evaluation

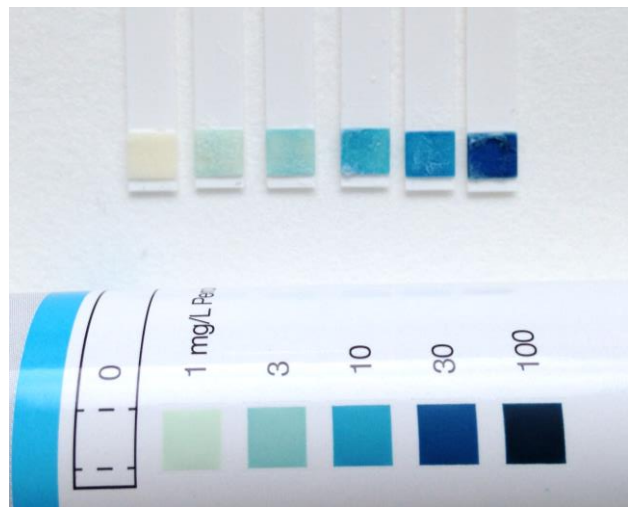
Visual evaluation	4. Compare with color chart after 15 seconds (REF 91319) or, respectively, after 5 seconds (REF 91312).
	5. Read off the result in mg/L.
Reflectometric evaluation	4. Insert the test strip to the test strip holder of a QUANTOFIX® Relax (REF 91346). Use method H <sub>2</sub> O <sub>2</sub> 25 or, respectively, H <sub>2</sub> O <sub>2</sub> 100.
	5. Read off the result in mg/L.
	6. After several determinations, the strip holder should be removed for cleaning.

\* Depending on the consistency and composition of the sample, dabbing or rinsing may be more appropriate.



## Verification by spiking experiments

QUANTOFIX® Peroxide 25	QUANTOFIX® Peroxide 100
Natural yogurt (1.5% fat) spiked with hydrogen peroxide solution 30% (Merck REF 1.08597.1000)	Natural yogurt (1.5% fat) spiked with hydrogen peroxide solution 30% (Merck REF 1.08597.1000)
Spiking H <sub>2</sub> O <sub>2</sub> 0 · 0.5 · 2 · 5 · 10 · 25 mg/L	Spiking H <sub>2</sub> O <sub>2</sub> 0 · 1 · 3 · 10 · 30 · 100 mg/L
Read-off H <sub>2</sub> O <sub>2</sub> 0 · 0.5 · 2 · 2 · 5 · 10 · 25 mg/L	Read-off H <sub>2</sub> O <sub>2</sub> 0 · 1 · 3 · 10 · 30 · 100 mg/L



## Contact

If you have further questions, please do not hesitate to contact us:

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