

Application note

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 ₂ O ₂ (REF 91319)
	0 · 1 · 3 · 10 · 30 · 100 mg/L H ₂ O ₂ (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.

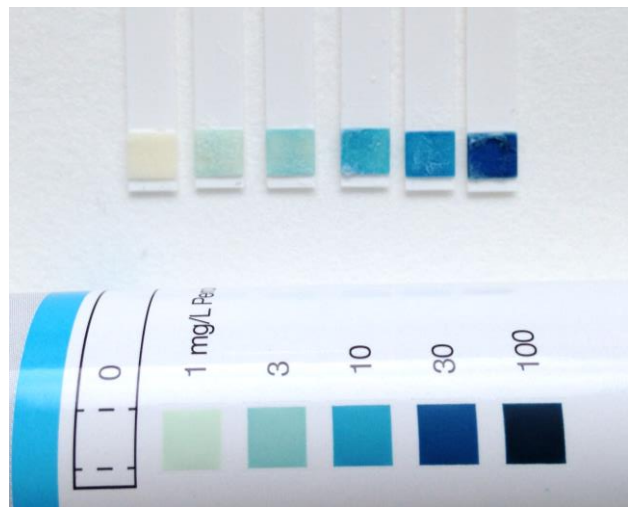
Evaluation

- | | |
|---------------------------|---|
| 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 ₂ O ₂ 25 or, respectively, H ₂ O ₂ 100. |
| | 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 ₂ O ₂ 0 · 0.5 · 2 · 5 · 10 · 25 mg/L	Spiking H ₂ O ₂ 0 · 1 · 3 · 10 · 30 · 100 mg/L
Read-off H ₂ O ₂ 0 · 0.5 · 2 · 2 · 5 · 10 · 25 mg/L	Read-off H ₂ O ₂ 0 · 1 · 3 · 10 · 30 · 100 mg/L



Contact

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