

Application note

Rev. 0

Determination of peroxide in brine

Overview	
Parameter	Hydrogen peroxide
Test	QUANTOFIX® Peroxide 100 (REF 91312)
Background	In the dairy industry, peroxide aerosols are used to disinfect containers. When filling cheese, the containers are filled with brine. Residue testing can then be performed directly in the brine using QUANTOFIX® Peroxide 100. The salt content influences the color development of the test strips. Calibration for this application can be adjusted by entering factors into QUANTOFIX® Relax.



Preparation and Procedure

Preparation	
	The brine does not need to be prepared.
Procedure	
On the QUANTOFIX® Relax (Version 3)	Once the correction factors have been entered into the method (see instructions below), QUANTOFIX® Peroxide 100 can be used as usual.

Instructions for setting a correction factor

To automatically include the correction factor for nitrate calculation in the QUANTOFIX® Relax results, it can be entered in the corresponding method as follows:

1. Select parameter H₂O₂ 100.
2. Follow the steps in the manual:

12. Equipment Settings

Enter the main menu by pressing the menu key to reach the "SETTINGS" display press . Use the arrow buttons to choose an entry and confirm your choice with .

SETTINGS

- Strip
- Password
- Printer
- Sound
- Autostart
- Battery
- Language
- Interface
- Customization
- Reset Unit
- Exit

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↓

✗
✓

Display 19: Admin settings

12.1 Test strips

Within the "Test strip" menu there are three more options. Favorites allow you to define test strips for the "Favorites" menu (see Chapter 12.2 "Favorites"). Additionally, you can activate or disable the confidence interval message in the display.

The option "Correction" allows for the adjustment of the factory-provided parameter calibration to account for matrix effects and interferences during the analysis. Use the arrow buttons to choose an entry and confirm your choice with .

If you press you get back to the settings.

3. Enter these correction factors in the "Correction" menu:

A = 2.591 B = 1.111 C = 5 D = 75

12.4 Correction

 **WARNING**

Faulty measurement results due to manipulated calibration are the sole responsibility of the operator of the equipment!

The correction mode allows for the adjustment of the MACHEREY-NAGEL parameter calibration and affects the result in terms of an additional calculation step. The menu offers the opportunity of correcting the result with a linear correction function.

By selecting the correction menu four values appear, that can be edited by choosing each of them. Selecting this function always affects the parameter displayed in the strip menu (see Chapter 12.1 "Test strips").

The meaning of the values A to D is as follows:

A = gradient of the correction function
 B = y-axis intercept of the correction function
 C = new lower measurement limit
 D = new upper measurement limit

Confirming your entry with  stores the settings. If you press , none of your selections is adopted. By pressing the "Reset"-button the values will be set back to factory settings.

Once you select one of these values, the input menu appears and you can enter a value (Restrictions: The value for A must be > 0. Value D must be bigger than value C, if values C and D are equal to zero, the factory-provided measuring range will be adjusted depending upon the entered values for A and B).

Confirming your entry with  stores the value. If you press , the former value will be kept.

The modification of a parameter will be indicated with a star in the parameter list display as well as on the result display and printout. Also the result in the memory will contain this indication, which cannot be removed by resetting the values to factory-settings.

Contact

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

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