

Application note

Version 2

Determination of nitrate in dairy products

Overview	
Parameter	Nitrate
Test	QUANTOFIX® Nitrate 100 (REF 91351)
General information	The determination of nitrate in dairy products is an important parameter for dairies. Undesirable nitrate contents level can be detected and, if necessary, removed. To receive correct results with the test strips QUANTOFIX® Nitrate 100, we recommend a modified measurement method for liquid and powder samples. With these adjustments, reliable measurement results for the nitrate content in dairy products are obtained in a close accordance with the reference method (Xylene method).



Sample preparation, execution and calculation of the result

Execution	Liquid samples	Powder samples
	- Dilute sample 1+1 - Dip the test strip in the sample for 2 seconds, ensure that both test fields are covered - Shake off excess liquid	- Prepare a solution with the milk powder with a concentration of 6% - Dip the test strip in the sample for 2 seconds, ensure that both test fields are covered - Shake off excess liquid
Evaluation	Liquid samples	Powder samples
visual evaluation	- Compare with color chart after 3 minutes - Multiply the result by the factor 2	Compare with color chart after 2 minutes
reflectometric evaluation on the QUANTOFIX® Relax until version 1.40	- The pre-installed reaction time for the test strip (method NO₃ 100) on the QUANTOFIX® Relax is set to 1 minute. Wait 2 minutes before placing the test strip on the test strip holder. - Multiply the result by the factor 2	The pre-installed reaction time for the test strip (method NO₃ 100) on the QUANTOFIX® Relax is set to 1 minute. Wait 1 minute before placing the test strip on the test strip holder.
reflectometric evaluation on the QUANTOFIX® Relax from version 1.40	- Select special method NO₃ S1 - Multiply the result by the factor 2	Select special method NO₃ S2

Contact

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

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