





Easy in-process monitoring



Take your lab with you

At EMD Millipore, when we say that we support you every step of the way, we truly mean it.

A prime example is the Reflectoquant® System.

Simply put, it's your inexpensive, mobile laboratory for on-the-spot analysis – anywhere and anytime.

While Reflectoquant® is convenient and simply to use, it's also state-of-the-art. It allows you to reliably examine every stage of your production process thus ensuring a consistently high quality. This comprehensive system includes everything you'll need for in-process monitoring: test strips and test kits as well as the RQflex® 10 and RQflex® 10 plus reflectometers.

Reflectoquant® is also versatile. Offering numerous tests with a broad range of parameters, measuring ranges and applications, it can handle many sample materials. So whether you work in agriculture, food and water analysis, cleaning control, or industrial analysis, the Reflectoquant® System is a mini-lab that's made just for you.



Your benefits

- Small and easy to handle for on-the-spot analysis
- Barcode calibration for reliable, quantitative results in a matter of minutes
- Many applications available
- Low analysis costs
- Environmentally friendly thanks to a minimal requirement of reagents

The Reflectoquant® product range at a glance

The basic components of a compact solution to analyze more than 20 parameters





Instruments	RQflex® 10 Instrument and basic accessories to measure test strips	RQflex® 10 plus Most flexible instrument to measure test strips and solutions (cell tests)
Test kits	to measure test strips	test strips and solutions (cen tests)
Reflectoquant® Tests Many parameters need only test strips. If further reagents and tools are needed, they are included in the kits	•	•
Reflectoquant® plus Tests Cell test kits for higher sensitivity especially in agricultural and water analysis		•
Application instructions		
www.merckmillipore.com – Application finder – Reflectometry: Tested protocols to prepare food and beverage samples for analysis	•	•
Quality control		
Standards Instruction manuals recommend EMD Millipore standard solutions or materials to prepare your own standard solution	•	•
Data transfer		
RQdata Interface and software package for transfer and documentation of results on IBM-compatible PCs	•	•

Reflectoquant® System

Fast and inexpensive supervision of raw materials during production

Hydroxymethylfurfural (HMF) in honey

The amount of hydroxymethylfurfural (HMF) in honey is an important quality criterion. The Reflectoquant® HMF test is the very first rapid test for the determination of hydroxymethylfurfural (HMF) content in honey. Check our application "HMF in honey" which is an alternative to time consuming HPLC analysis for your screening tests.

Ascorbic acid in food

Ascorbic acid (vitamin C) counts as an essential quality characteristic in many foods. A loss of vitamin C means a deterioration of the food quality which can even be tasted. Check our Reflectoquant® Ascorbic Acid Test applications for over 15 sample materials.

Reducing (total) sugar in potatoes

In fried or backed goods, such as potato chips, acrylamide may be produced by the reaction between asparagine and reducing sugars (fructose, glucose, etc.). The recommended upper level of reducing sugars in potatoes should not exceed a set limit. Check our application "Total sugar in potatoes" for Reflectoguant® Total Sugar Test.

Nitrate in vegetables

Nitrate in itself is not harmful to human health. Its metabolic products, on the other hand, can be harmful. Limits have been set for nitrate levels in foods, like drinking water, infant foods and vegetables. Check our Reflectoquant® Nitrate Test applications for over 15 sample materials.

RQflex® 10/RQflex® 10 plus reflectometers

NEW!

RQflex® 10 Ord. No. 1.16970.0001 Ord. No. 1.16950.0001

Reflectometer for the evaluation of Reflectoquant® test strips

Scope of delivery and features

includes test strip adapter and recalibration set, double optical system (option for evaluation for two reaction zones), memory for five methods, memory slots for 50 results (with date, time, parameter, and result), interface to PC, batch-specific calibration function (bar-code technology), battery operation with 4 AAA batteries, detailed manual for reflectometer and tests



NEW!

RQflex® 10 plus Ord. No. 1.16955.0001

Reflectometer for the evaluation of Reflectoquant® test strips and Reflectoquant® plus test kits

Scope of delivery and features

as above for Ord. No. 1.16970.0001, also contains

cell adapter and eight empty cells



RQflex® sample preparation

Mariex Sample preparation	NEW!
Dilution and decoloration	Ord. No.
Polyvinylpolypyrrolidone Divergan® RS, 100 g	1.07302.0100
	NEW!
Preserving milk samples	Ord. No.
Sodium azide tablets, 5,000 tabs	1.06687.0001

RQflex® accessories

Potassium dichromate tablets, 5,000 tabs

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1.04858.0001

	Ord. No.	Ord. No.
RQdata for RQflex® 10 and RQflex® 10 plus Interface and software package for transfer and documentation of results on IBM-compatible PCs	1.16998.0007	1.16998.0001
Test-strip adapter for RQflex® 10 and RQflex® 10 plus	1.16953.0007	1.16953.0001
Cell adapter for RQflex® 10 plus		1.16729.0001
Recalibration set for RQflex® 10 and RQflex® 10 plus	1.16954.0007	1.16954.0001
Empty cells for RQflex® 10 plus, 100 disposable cells		1.16727.0001
RQcheck check set for RQflex® 10 and RQflex® 10 plus	1.16957.0007	1.16957.0001





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Reflectoquant® tests

					NEW!		
	Parameter	Graduation	No. of tests	Ord. No.	Ord. No.	Method	Туре
Α	Ammonium Test	0.2-7.0 mg/l NH ₄	50		1.16892.0001	Indophenol blue	R
	Ammonium Test	5.0-20.0 mg/l NH ₄	50		1.16899.0001	Indophenol blue	R
	Ammonium Test	20–180 mg/l NH ₄	50		1.16977.0001	Nessler	R
	Ascorbic Acid Test	25–450 mg/l ascorbic acid	50	16981-1	1.16981.0001	Phosphormolybd. blue	
	Ascorbic Acid Test RQeasy	25–450 mg/l ascorbic acid	50		1.17963.0001	Phosphormolybd. blue	
В	Blank Strip		50		1.16730.0001		
С	Calcium Test	2.5–45.0 mg/l Ca	50		1.16993.0001	Glyoxalbishydroxyanil	R
	Calcium Test	5–125 mg/l Ca	50		1.16125.0001	Phthaleinkomplexone	
	Chlorine Test	0.5-10.0 mg/l Cl ₂	50		1.16896.0001	Redox reaction	R
F	Formaldehyde Test	1.0-45.0 mg/l HCHO	50		1.16989.0001	Triazole	R
	Free Sulfurous Acid Test	1.0-40.0 mg/l SO ₂	50	16137-1	1.16137.0001	Nitroprusside/	R
						Zn-hexacyanoferrate	
G	Glucose Test	1–100 mg/l glucose	50	16720-1	1.16720.0001	Enzymatic reaction	
Н	Hydroxymethylfurfural Test	1.0-60 mg/l HMF	50	117952.0007	1.17952.0001	Enzymatic reaction	
T	Iron Test	0.5–20.0 mg/l Fe(II)	50	16982-1	1.16982.0001	Triazine	
	Iron Test	20–200 mg/l Fe(II)	50		1.16983.0001	2.2'-Bipyridine	
L	Lactic Acid Test	3-60.0 mg/l lactic acid	50		1.16127.0001	Enzymatic reaction	
М	Magnesium Test	5–100 mg/l mg	50		1.16124.0001	Phthaleinkomplexone	
	Malic Acid Test	5.0-60.0 mg/l malic acid	50	16128-1	1.16128.0001	Enzymatic reaction	
N	Nitrate Test	3–90 mg/l NO ₃	50	16995-1	1.16995.0001	Modified Griess' reaction	
	Nitrate Test	5–225 mg/l NO ₃	50	16971-1	1.16971.0001	Modified Griess' reaction	
	Nitrate Test RQeasy	5–250 mg/l NO ₃	50		1.17961.0001	Modified Griess' reaction	
	Nitrite Test	0.5-25.0 mg/l NO ₂	50	16973-1	1.16973.0001	Griess' reaction	
	Nitrite Test	0.03-1.00 g/I NO ₂	50		1.16732.0001	Aromatic amine	
Р	Peracetic Acid Test	1.0–22.5 mg/l peracetic acid	50	16975-1	1.16975.0001	Redox reaction	
	Peracetic Acid Test	75–400 mg/l peracetic acid	50	16976-1	1.16976.0001	Redox reaction	
	Peroxide Test	0.2-20.0 mg/l H ₂ O ₂	50	16974-1	1.16974.0001	Enzymatic reaction	
	Peroxide Test	100-1000 mg/l H ₂ O ₂	50		1.16731.0001	Enzymatic reaction	
	pH Test	pH 1.0-5.0	50		1.16894.0001	Mixed indicator	
	pH Test	pH 4.0-9.0	50		1.16996.0001	Mixed indicator	
	pH Test for Cooling Lubricants	pH 7.0-10.0	50		1.16898.0001	Mixed indicator	
	Phosphate Test RQflex plus	0.1–5.0 mg/l PO ₄	100		1.17942.0001	Phosphormolybd. blue	
	Phosphate Test	5–120 mg/l PO ₄	50		1.16978.0001	Phosphormolybd. blue	R
	Potassium Test RQflex plus	1.0-25.0 mg/l K	100		1.17945.0001	Kalignost, turbidimetric	
	Potassium Test	0.25-1.20 g/l K	50		1.16992.0001	Dipicrylamine	R
S	Sucrose Test	0.25-2.5 g/l	50	1.16141.0007	1.16141.0001	Enzymatic reaction	R
	Sulfite Test	10-200 mg/I SO ₃	50		1.16987.0001	Nitroprusside/	
		- U				Zn-hexacyanoferrate	
Т	Total Acidity Test pH 7.0	2.0–14.0 g/l (as tartaric acid)	100		1.16135.0001	Mixed indicator	R
	Total Acidity Test pH 8.2	2.0–14.0 g/l (as tartaric acid)	100	16138-1	1.16138.0007	Mixed indicator	R
	Total Hardness Test	0.1–30.0 °d	50		1.16997.0001	Phthaleinkomplexone	R
	Total Sugar Test	65–650 mg/l total sugar	50		1.16136.0001	Enzymatic reaction	R
	(glucose and fructose)						
U	Urea Test in Milk Application	0.2-7.0 mg/l NH ₄	50		1.16892.0001	Indophenol blue	R
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We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

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