

Reflectoquant® System.

Easy in-process monitoring





EMD Millipore Corp. is a subsidiary of Merck KGaA, Darmstadt, Germany

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		
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 Reflectoquant® 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

Ord. No. M1169500001 Ord. No. M1169700001
Ord. No. M1169500001 Ord. No. M1169700001

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!

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ROflex® 10 plus	Ord. No. M1169550001

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

Scope of delivery and features

as above for Ord. No. M1169700001, also contains cell adapter and eight empty cells



RQflex® sample preparation

	NEVV!
Dilution and decoloration	Ord. No.
Polyvinylpolypyrrolidone Divergan® RS, 100 g	M1073020100
	NEW!
	17777
Preserving milk samples	Ord. No.
Sodium azide tablets, 5,000 tabs	M1066870001
Potassium dichromate tablets, 5,000 tabs	M1048580001

RQflex® accessories

NEW! Ord. No. Ord. No. M1169980001 RQdata for RQflex® 10 and RQflex® 10 plus M1169980007 Interface and software package for transfer and documentation of results on IBM-compatible PCs Test-strip adapter for RQflex® 10 and RQflex® 10 plus M1169530007 M1169530001 Cell adapter for RQflex® 10 plus M1167290001 Recalibration set for RQflex® 10 and RQflex® 10 plus M1169540007 M1169540001 Empty cells for RQflex® 10 plus, 100 disposable cells M1167270001 RQcheck check set for RQflex® 10 and RQflex® 10 plus M1169570007 M1169570001



Index A-Z

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		M1168920001	Indophenol blue	R
	Ammonium Test	5.0–20.0 mg/l NH ₄	50		M1168990001	Indophenol blue	R
	Ammonium Test	20–180 mg/l NH ₄	50		M1169770001	Nessler	R
	Ascorbic Acid Test	25–450 mg/l ascorbic acid	50	16981-1	M1169810001	Phosphormolybd. blue	
	Ascorbic Acid Test RQeasy	25–450 mg/l ascorbic acid	50		M1179630001	Phosphormolybd. blue	
В	Blank Strip		50		M1167300001		
С	Calcium Test	2.5-45.0 mg/l Ca	50		M1169930001	Glyoxalbishydroxyanil	R
	Calcium Test	5–125 mg/l Ca	50		M1161250001	Phthaleinkomplexone	
	Chlorine Test	0.5-10.0 mg/l Cl ₂	50		M1168960001	Redox reaction	R
F	Formaldehyde Test	1.0-45.0 mg/l HCHO	50		M1169890001	Triazole	R
	Free Sulfurous Acid Test	1.0-40.0 mg/l SO ₂	50	16137-1	M1161370001	Nitroprusside/	R
						Zn-hexacyanoferrate	
G	Glucose Test	1–100 mg/l glucose	50	16720-1	M1167200001	Enzymatic reaction	
Н	Hydroxymethylfurfural Test	1.0-60 mg/l HMF	50	117952.0007	M1179520001	Enzymatic reaction	
T	Iron Test	0.5–20.0 mg/l Fe(II)	50	16982-1	M1169820001	Triazine	
	Iron Test	20–200 mg/l Fe(II)	50		M1169830001	2.2'-Bipyridine	
L	Lactic Acid Test	3-60.0 mg/l lactic acid	50		M1161270001	Enzymatic reaction	
М	Magnesium Test	5–100 mg/l mg	50		M1161240001	Phthaleinkomplexone	
	Malic Acid Test	5.0-60.0 mg/l malic acid	50	16128-1	M1161280001	Enzymatic reaction	
N	Nitrate Test	3-90 mg/l NO ₃	50	16995-1	M1169950001	Modified Griess' reaction	
	Nitrate Test	5–225 mg/l NO ₃	50	16971-1	M1169710001	Modified Griess' reaction	
	Nitrate Test RQeasy	5–250 mg/I NO ₃	50		M1179610001	Modified Griess' reaction	
	Nitrite Test	0.5-25.0 mg/l NO ₂	50	16973-1	M1169730001	Griess' reaction	
	Nitrite Test	0.03-1.00 g/I NO ₂	50		M1167320001	Aromatic amine	
Р	Peracetic Acid Test	1.0-22.5 mg/l peracetic acid	50	16975-1	M1169750001	Redox reaction	
	Peracetic Acid Test	75–400 mg/l peracetic acid	50	16976-1	M1169760001	Redox reaction	
	Peroxide Test	0.2-20.0 mg/l H ₂ O ₂	50	16974-1	M1169740001	Enzymatic reaction	
	Peroxide Test	100-1000 mg/l H ₂ O ₂	50		M1167310001	Enzymatic reaction	
	pH Test	pH 1.0-5.0	50		M1168940001	Mixed indicator	
	pH Test	pH 4.0-9.0	50		M1169960001	Mixed indicator	
	pH Test for Cooling Lubricants	pH 7.0-10.0	50		M1168980001	Mixed indicator	
	Phosphate Test RQflex plus	0.1–5.0 mg/l PO ₄	100		M1179420001	Phosphormolybd. blue	
	Phosphate Test	5–120 mg/l PO ₄	50		M1169780001	Phosphormolybd. blue	R
	Potassium Test RQflex plus	1.0–25.0 mg/l K	100		M1179450001	Kalignost, turbidimetric	
	Potassium Test	0.25-1.20 g/l K	50		M1169920001	Dipicrylamine	R
S	Sucrose Test	0.25-2.5 g/l	50	1.16141.0007	M1161410001	Enzymatic reaction	R
	Sulfite Test	10-200 mg/l SO ₃	50		M1169870001	Nitroprusside/	
						Zn-hexacyanoferrate	
Т	Total Acidity Test pH 7.0	2.0-14.0 g/l (as tartaric acid)	100		M1161350001	Mixed indicator	R
	Total Acidity Test pH 8.2	2.0–14.0 g/l (as tartaric acid)	100	16138-1	M1161380007	Mixed indicator	R
	Total Hardness Test	0.1-30.0 °d	50		M1169970001	Phthaleinkomplexone	R
	Total Sugar Test	65-650 mg/l total sugar	50		M1161360001	Enzymatic reaction	R
	(glucose and fructose)						
U	Urea Test in Milk Application	0.2-7.0 mg/l NH ₄	50		M1168920001	Indophenol blue	R
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