

Enzymatic analysis in food & feed

with products from R-Biopharm



Time and cost saving



Simple and user-friendly



Manual, semi- or fully automated with full service package

More information:

<https://r-b.io/Enzymatic>

Roche *Yellow Line* becomes Enzytec™ *Liquid*

In general ...

... enzymatic tests are used for the analysis of foods such as fruit juices, wine, beer, dairy products, egg, meat, etc. Two major objectives here are compliance with regulatory provisions and standards and, in particular, production control through production monitoring and resulting measures. The tests are performed manually, but more and more often semi- and fully automated.

Enzymatic parameters cover the determination of sugars (e.g. glucose or lactose), organic acids (e.g. malic acid or lactic acid), alcohols and other ingredients (e.g. sulfite). These photometric methods are based on the specificity of a particular enzyme for an analyte and the absorbance of the coenzyme at 340 nm. The results are measured by means of a photometer.

Improvement of the previous gold standard!

At R-Biopharm, we firmly believe that gold standards can always be improved. Therefore, we see the successive discontinuation of the *Yellow Line* by Roche after more than 40 successful years in the market and the resulting switch to the Enzytec™ *Liquid* product line as an opportunity for the future: Established quality and reliability of results of enzymatic tests combined with increased user-friendliness and simultaneous cost reduction!

All reagents of the Enzytec™ *Liquid* product line are liquid and ready-to-use, which means a significant improvement for laboratory organization:

- In laboratories with lower sample throughput, a few tests can be performed and the reagents stored for further use (the original shelf life remains unchanged).

- In laboratories with medium to high sample throughput and possibly existing automation, the reagents can be used directly in the analyzers and are available cooled for further analyses.
- In combination with our liquid stable multi-sugar and multi-acid standards, an innovative test system results.

Enzytec™ *Liquid* Sucrose/D-Glucose (Art. No. E8180)



Enzymatic analysis – Enzytec™ *Liquid* product line

Features & advantages



Cost-effective

50 - 500 determinations per kit
(manual or automated)



Established quality

High precision and sensitivity
with fast and reliable analysis



User-friendly

Reagents are liquid and
ready-to-use, same test procedure
for all parameters



Robust and stable

Reagents can be used until expiry
date after opening



Sustainably

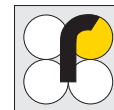
Avoidance of reagent discard due
to high reagent stability



Automated

- Easy and safe use through analyzer
- Automation is easily possible





Enzymatic analysis – Enzytec™ Liquid product line

Benefit sustainably from the advantages of the Enzytec™ Liquid product line and convert your enzymatic analyses into four phases:

Schedule	Product	Roche Yellow Linee	Enzytec™ Liquid
Package 1 01-2022 until 06-2022	Acetic acid	10148261035	E8226
	D-Glucose	10716251035	E8140
	D-Glucose/D-Fructose	10139106035	E8160
	Glycerol	10148270035	E8360
	L-Lactic acid	10139084035	E8260
	L-Malic acid	10139068035	E8280
	Sucrose/D-Glucose*	10139041035	E8180/E8140*
	Sucrose/D-Glucose/D-Fructose*	10716260035	E8180/E8160*, E8190 total sugar
Package 2 07-2022 until 12-2022	Ammonia	11112732035	E8390
	Citric acid	10139076035	E8230**
	Ethanol	10176290035	E8340
	D-Galactose	–	E8120
	Gluconic acid	10428191035	E8520**
	D-Isocitric acid	10414433035	E8550**
	D-Lactic acid	–	E8245**
	Lactose/D-Galactose	10176303035	E8110/E8120*
	Lactose/D-Glucose	10986119035	E8130/E8140*
	D-/L-Malic acid	11112821035	E8240/E8260*
	Urea/Ammonia	10542946035	E8395**/E8390*
Package 3 01-2023 until 06-2023	Acetaldehyde	10668613035	Launch 01/2023
	L-Ascorbic acid	10409677035	Launch 01/2023
	D-Malic acid	11215558035	Launch 01/2023
	Maltose/Sucrose/D-Glucose	11113950035	Launch 01/2023
	D-Sorbitol/Xylitol	10670057035	Launch 01/2023
	Starch	10207748035	Launch 01/2023
Package 4 07-2023 until 12-2023	Cholesterol	10139050035	Launch 07/2023
	Formic acid	10979732035	Launch 07/2023
	Glutamic acid	10139092035	Launch 07/2023
	D-3-Hydroxybutyric acid	10907979035	Launch 07/2023
	Nitrate	10905658035	Launch 07/2023
	Raffinose	10428167035	Launch 07/2023
	Succinic acid	10176281035	Launch 07/2023

Subject to changes

* For differentiation

** Market launch until 2022-06

Standards

Alcohol Standard	Alcohol control solution	AQ03-015
Enzytec™ Multi-acid standard low	Control solution of 7 different acids	E8460
Enzytec™ Multi-acid standard high	Calibration solution for analyzers of 7 different acids	E8465
Enzytec™ Multi-sugar standard low	Control solution of 7 different sugars	E8440
Enzytec™ Multi-sugar standard high	Calibration solution for analyzers of 7 different sugars	E8445

Semi-automation with RIDA®CUBE SCAN

Full flexibility for low sample throughput

Simple – anytime - anywhere

The RIDA®CUBE SCAN is a small, cost-effective walk-away system for single tests. Due to its compact design, the RIDA®CUBE SCAN allows you to semi-automate your determinations independent of location. The use of the system simplifies and shortens the performance of your enzymatic tests

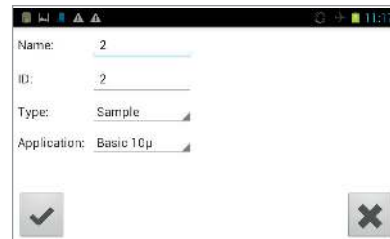
due to the single-dose reagents provided. After sample input via the tablet and sample pipetting, the test is performed automatically. The results are then displayed on the tablet and can be exported to your computer.

Test procedure

- 1 Insert the RFID card



- 2 Enter the sample data in the tablet app



- 3 Pipette the sample into the test tube



- 4 Insert the test tube into the device



Semi-automation with RIDA®CUBE SCAN

RIDA®CUBE kits

Product	Art. No.
Lactose/D-Galactose*	RCS4110
D-Galactose	RCS4120
Lactose/D-Glucose*	RCS4130
D-Glucose	RCS4140
D-Glucose/D-Fructose*	RCS4160
Sucrose/D-Glucose*	RCS4180
Sucrose/D-Glucose/D-Fructose*	RCS4190
Acetic acid	RCS4226
D-/L-Lactic acid*	RCS4240
L-Lactic acid	RCS4260
L-Malic acid	RCS4280
Ethanol	RCS4340
Ammonia	RCS4390
SO ₂ -Total (Total Sulfite)	RCS4600
SO ₂ -Free (Free Sulfite)	RCS4610
α-Amino Nitrogen	RCS4630

* Without differentiation

RIDA®CUBE SCAN, Art. No. ZRCS0546/ZRCS0580



Features & advantages



Cost-effective

Low purchase price and maintenance-free device



Simple

Ready-to-use reagents for individual tests



User-friendly

RFID card with all test settings and calibration curves



Flexible

Semi-automated processing of individual samples at any time and from anywhere



Time saving

After sample addition, the test sequence is automated



Location-independent

Small and portable device
(16 x 13 x 14,5 cm)

Full automation with Pictus 500

Time and cost savings

The automation of Enzytec™ *Liquid* tests leads to a reduction in costs, processing time and user errors during performance. In this context, we offer our Pictus 500 analyzer with a full service package

including instrument, support, maintenance, reagents and applications. However, if you already own an analyzer, we will be happy to provide you with the necessary applications as well.

Features & advantages



User-friendly

Automatic sample pre-dilution



Established quality

No run errors and better reproducibility



Cost-effective

Cost reduction due to shorter processing time and significantly lower reagent consumption



Robust and stable

Long on-board stability of reagents



Time saving

Walk-away and multi-tests for large sample series



Flexible

Continuous loading of samples and reagents

Pictus 500 (Art. No. ZP500)



Everything from a single source

Our strong team of developers, application and service specialists, product managers and sales will support you from the idea to the routine application.