

Human nutrition



Animal nutrition



Enzymes Production



Screening



Biofuels



Detergent



Provide a simple, fast and reliable method for measuring enzymatic activity throughout the value chain



Summary

l.	Enzyme Assay Technology – 96-Wells Plate & Reader	p. 3
II.	Our sensors characteristics	p. 5
III.	Zymplate® – Quick Protocol	p. 6
IV.	Zvmoptia's offer	p. 7

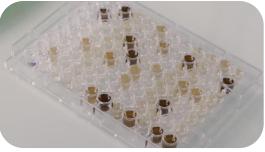


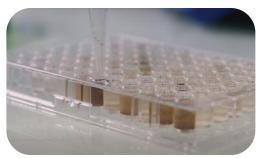
ZYMOPTIQ's patented technology offers very simple, fast, reliable, and affordable enzymatic activity measurements. Our system is ready to use, just bring your samples to analyze!

Enzyme Assay Technology – 96-Wells Plate & Reader

Samples which can be used







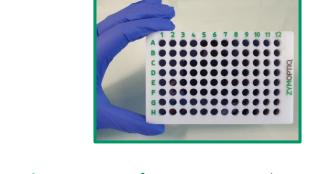
Liquid, powder, pellets

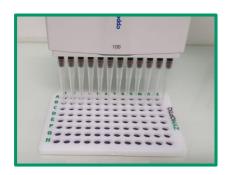
See-through, colored

Cloudy, turbid, unfiltered

Ready to use 96-well plate; **no substrate preparation.**

High-throughput measurement.



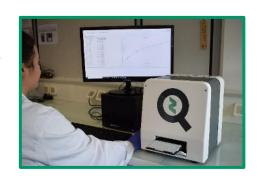


No need for sample preparation: use crude samples, unpurified extracts or enzymatic cocktails.

Versatile tool: incubate your samples at the desired pH and temperature.

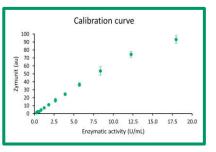
Easy and fast protocol: less than 15 min of operator handling time are needed

Fast reading: read the 96 positions in 15 min.





Enzyme Assay Technology - 96 Wells Plate & Reader



Get your data in a fast and efficient way: analyze and visualize your data with our **user-friendly** software.

CVs lower than 10% on **complex** samples even at **low activity.**

Which applications

- Discovery: activity screening, best performer selection, cocktail evaluation, etc
- Process optimization: enzyme or cocktail evaluation in defined conditions, etc
- Quality control: activity measurement of a batch of enzymes, etc

Available sensors

- Xylanase activity: wheat arabinoxylan
- Amylase activity: potato amylopectin (α-amylase, β-amylase, maltogenic amylase, amyloglucosidase, isoamylase)
- Glucanase activity: beta-glucan

Upcoming sensors

- Protease, pectinase, laccase, and phytase activities
- And many more to come (based on commercially available substrates)

Do you have other needs or further questions about our sensors?

Do not hesitate to contact us!



Our sensors characteristics

For all our sensors:

Temperature range: [4 – 60°C]

• **pH** range: [3 - 9]

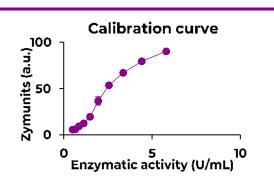
• Price per test: < 4€ / well</p>

CVs lower than 10%

Amylase activity

Substrate: potato amylopectin

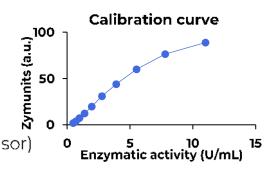
Sensitivity range*: [2 - 4 U/ml]



*Sensitivity range obtained with the lpha-Amylase (Aspergillus oryzae) Al from Megazyme

Xylanase activity

- Substrate: wheat arabinoxylan
- Sensitivity range*:
 - [6 9 U/ml] (High-Activity sensor)
 - [0.6 1 mU/ml] (Very Low-Activity sensor)

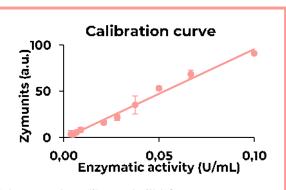


*Sensitivity range obtained with the endo-1,4-β-Xylanase (Neocallimastix patriciarum) from Megazyme

β-Glucanase activity

Substrate: β-glucan barley

Sensitivity range*: [0.250 U/ml]



*Sensitivity range obtained with the endo-1,3,1,4-eta-Glucanase Lichenase (Bacillus subtilis) from Megazyme

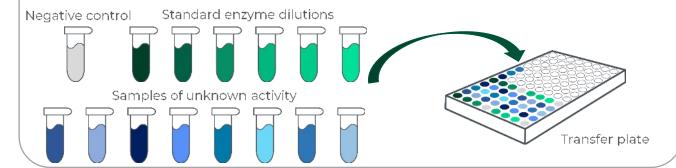


Zymplate® – Quick Protocol



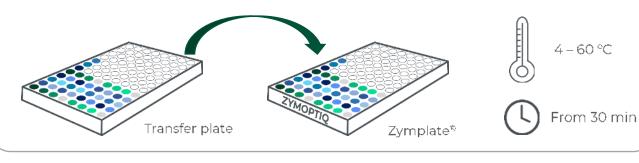
Prepare your enzymes (standard and samples) in buffer. Use the buffer or matrix without enzyme as negative control.

Prepare your transfer plate (96-well) according to your chosen layout.



Reaction start and incubation

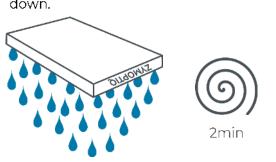
Take the Zymplate® out of its package. Transfer your enzyme solutions to the Zymplate® using a multi-channel pipette. Seal the plate and incubate in the desired conditions.

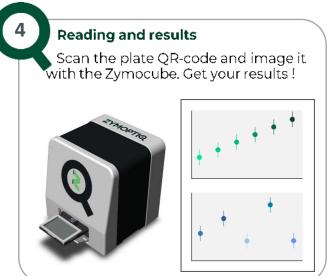


3 Reaction end and drying

Take out the plate, remove the seal and empty it. Rinse thoroughly with de-ionized water (twice).

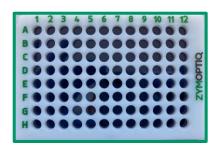
Dry by centrifuging the plate upside down.







Zymoptiq's offer



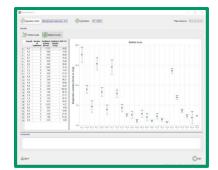
Zymplate®



Plate-centrifuge



Zymocube®



Zymosoft®

The table hereunder is non-exhaustive

	Label
	Zymocube purchase or leasing (3 to 24 months)
Material	Zymosoft software
Material	Zymplate – Xylanase (High Activity & Very Low Activity), Amylase, β Glucanase
	Plate Centrifuge
	Sample analysis
Service	Support by Zymoptiq employee in client's lab
	Co-development of sensors

Need more info? Visit our website https://zymoptiq.com.
You can place an order by sending an email at orders@zymoptiq.com
& you can visit us at 15 avenue Pierre et Marie Curie, 59 650 Villeneuve d'Ascq, France



ZYMOPTIQ team



The most efficient way to assay enzymatic activities

ZYMOPTIQ marketing support. Does not replace reading the instructions for use.