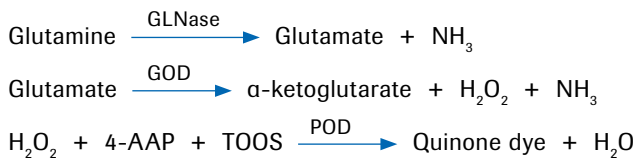


Glutamine Assay for Cedex Bio and Cedex Bio HT Analyzers

High performance and reproducibility with accurate data

The Glutamine Assay developed for the Cedex Bio and Cedex Bio HT Analyzers provides *accurate* and *consistent* quantitative measurement of glutamine in cell culture and fermentation media. The assay technology is based on a colorimetric method where L-glutamine in a sample is deaminated by glutaminase and then oxidized by L-glutamate oxidase. The byproduct, H₂O₂, generates quinone dye in the presence of peroxidase. The formation of dye is measured photometrically at 340 nm.



Trust results to make high confidence decisions

- Tight correlation with HPLC
- Pretreatment of L-glutamate prevents cross-reactivity
- Overestimate of glutamine by membrane analyzer

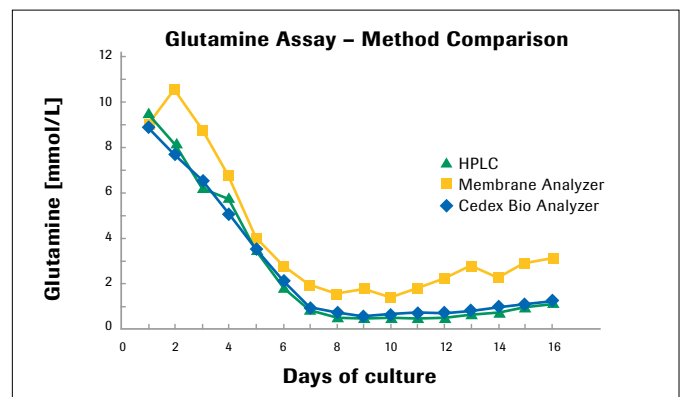


Figure 1: Glutamine concentrations in the medium over the production period of 16 days were monitored on the Cedex Bio Analyzer, on a membrane analyzer, and with HPLC.*

Benefit from a wide and sensitive measuring range

	Glutamine Bio and Glutamine Bio HT
Range	15 to 1,500 mg/L (0.1 to 10.0 mmol/L)
	up to maximal solubility with automatic predilution

Conserve sample with low volume requirement

- Sample volume of 2 µl per test

* Data on file

For use in quality control/manufacturing process only.

Rely on efficiency to make the right decision

	Level 1	Level 2	Level 3
Mean	1.74 mmol/L (253.8 mg/L)	3.89 mmol/L (569.2 mg/L)	8.44 mmol/L (1233.7 mg/L)
CV in-run	1.8 %	1.8 %	1.2 %
CV inter-run	2.3 %	2.7 %	1.9 %

- ≤3% variability between duplicates (a & b)
- Automated dilution extended the measuring range
- Consistently provided results while Nova BioProfile 400 data contains multiple gaps

Save time with improved workflow efficiency

- No a sample filtration or pretreatment required
- Fully automated glutamine assay
- Ready-to-use reagents
- Highly reproducible
- Results are provided within 13 minutes with high precision and accuracy.

	Glutamine Bio	Glutamine Bio HT
On-board stability	4 weeks	12 weeks
Calibration curve stability	84 days	84 days

Take control of your bioprocess with the Cedex portfolio

- Broad and expandable assay menu
- 2 instrument platforms with **identical technology, menu and reagents** to fit throughput, automation needs
- Solutions for development and manufacturing environments

Ordering information

Product	Pack size	Catalog number
Glutamine V2 Bio	4 x 50 tests	07 395 655 001
Glutamine V2 Bio HT	200 tests	07 395 612 001
Calibrator B Bio	6 x 0.5 ml	06 682 553 001
Control B Level 1 Bio	6 x 0.5 ml	06 682 561 001
Control B Level 2 Bio	6 x 0.5 ml	06 682 570 001
Control B Level 3 Bio	6 x 0.5 ml	06 682 588 001

Regulatory disclaimer

For use in quality control/manufacturing process only.

Trademarks

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Please contact your local CustomBiotech representative

Europe, Middle East, Africa, Latin America

Phone +49 621 759 8580
Fax +49 621 759 6385
mannheim.custombiotech@roche.com

United States

Phone +1 800 428 5433, ext. 14649 (toll-free)
Fax +1 317 521 4065
custombiotech.ussales@roche.com

Canada

Phone +1 450 686 7050
Fax +1 450 686 7012
custombiotech.can@roche.com

Japan

Phone +81 3 6634 1046
Fax +81 3 5479 0585
japan.custombiotech@roche.com

Asia Pacific

Phone +65 6371 6638
Fax +65 6371 6601
apac.custombiotech@roche.com

Published by

Roche Diagnostics GmbH
Sandhofer Straße 116
68305 Mannheim
Germany

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