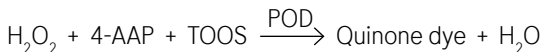
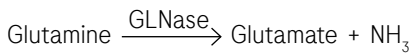




Glutamine Assay for Cedex Bio & Bio HT Analyzers

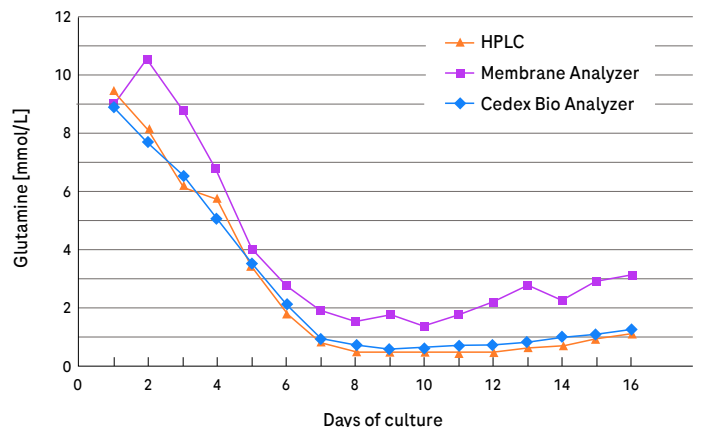
High testing performance and reproducibility

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 from 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
- Better accuracy than membrane analyzer



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Glutamine Assay – Method Comparison. Glutamine concentrations in the cell culture medium over a culture period of 16 days were monitored on the Cedex Bio Analyzer, on a membrane analyzer, and with HPLC. (Verification data of Roche Pharma)

Benefit from a wide and sensitive measuring range

	Glutamine concentration
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

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

High precision

	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 %

Precision was determined on a Cedex Bio HT Analyzer with samples of three concentration levels. Coefficients of variation (CV) were calculated for in-run precision (n = 21) and inter-run precision (on 10 days). Representative performance data are shown. Results obtained in individual laboratories may vary. (Evaluation data of Roche Diagnostics)

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 quality control/manufacturing of IVD/medical devices/pharmaceutical products only.

Trademark

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