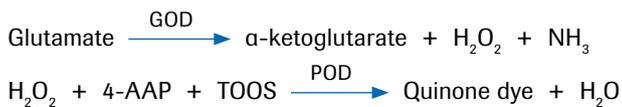


## Glutamate Assay for Cedex Bio and Cedex Bio HT Analyzers

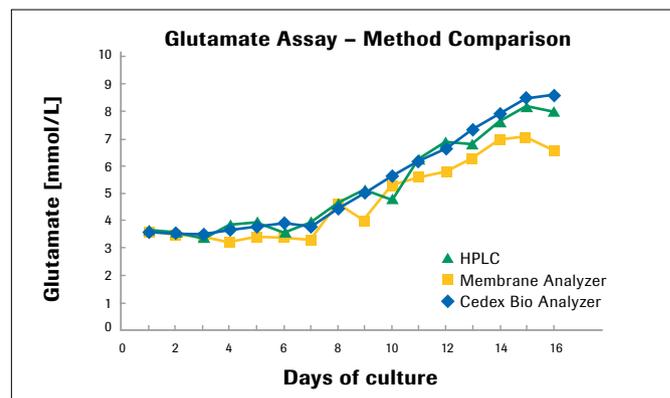
*High performance and reproducibility with accurate data*

The Glutamate Assay developed for the Cedex Bio and Cedex Bio HT Analyzers provides accurate and consistent quantitative measurement of glutamate in cell culture and fermentation media. The assay technology is based on a colorimetric method where L-glutamate in a sample is oxidized by L-glutamate oxidase. One of the byproducts, H<sub>2</sub>O<sub>2</sub>, generates quinone dye in the presence of peroxidase. The formation of dye is measured photometrically at 340 nm and is directly proportional to the glutamate concentration.



### Trust results to make high confidence decisions

- High comparability to HPLC
- Wide range with automated on-board dilution capability
- Proven accuracy, reproducibility and precision



**Figure 1:** Glutamate concentrations in medium over a production 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

	Glutamate Bio and Glutamate Bio HT
<b>Range</b>	15 to 1,500 mg/L, up to 150 g/L with automatic predilution and 0.1 to 10 mmol/L, up to 1.0 mol/L with automatic predilution

### Conserve sample with low volume requirement

- Sample volume of 2 µl per test

## Rely on efficiency to make the right decision

	Level 1	Level 2	Level 3
<b>Mean</b>	0.57 mmol/L (83.85 mg/L)	3.47 mmol/L (510.4 mg/L)	6.66 mmol/L (979.7 mg/L)
<b>CV in-run</b>	0.4 %	0.3 %	0.5 %
<b>CV inter-run</b>	1.6 %	2.1 %	1.9 %

- Automated dilution extended the measuring range
- ≤3% variability between duplicates (a & b)

## Save time with improved workflow efficiency

- Ready-to-use reagents
- Long on-board and calibration curve stability
- Barcoded reagents

	Cedex Bio	Cedex Bio HT
On-board stability	4 weeks	8 weeks
Calibration curve stability	8 weeks	8 weeks

## 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
Glutamate V2 Bio	4 x 50 tests	07 395 582 001
Glutamate V2 Bio HT	200 tests	07 395 566 001
Calibrator A Bio	6 x 1 ml	06 682 189 001
Control A Level 1 Bio	6 x 1 ml	06 682 197 001
Control A Level 2 Bio	6 x 1 ml	06 682 227 001
Control A Level 3 Bio	6 x 1 ml	06 682 545 001

### 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](mailto:mannheim.custombiotech@roche.com)

### United States

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

### Canada

Phone +1 450 686 7050  
Fax +1 450 686 7012  
[custombiotech.can@roche.com](mailto:custombiotech.can@roche.com)

### Japan

Phone +81 3 6634 1046  
Fax +81 3 5479 0585  
[japan.custombiotech@roche.com](mailto:japan.custombiotech@roche.com)

### Asia Pacific

Phone +65 6371 6638  
Fax +65 6371 6601  
[apac.custombiotech@roche.com](mailto:apac.custombiotech@roche.com)

### Published by

Roche Diagnostics GmbH  
Sandhofer Straße 116  
68305 Mannheim  
Germany

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