

FAD-GDH - reduced xylose interference

Product information sheet

April 2015

What's different?

+ Increased accuracy

Reduced cross-reactivity with Mannose, Galactose, and Xylose, providing increased specificity to glucose.

+ Higher reactivity

Providing a faster signal to the end user.

+ Improved stability

Improved pH and temperature stability enhances reliable strip performance.

+ Cost effectiveness

Increased reactivity allows the use of fewer units per strip.

+ Supply security

Bulk supply available, offering control over manufacturing processes and supply chain.

Introducing FAD-GDH with reduced xylose interference

BBI Solutions now offers a next generation FAD-dependent Glucose Dehydrogenase (FAD-GDH).

The latest addition to our market leading range of enzymes for blood glucose monitoring, our new grade of FAD-GDH with reduced xylose interference, reduces cross-reactivity with a range of sugars, providing **increased specificity** to glucose, **improved reactivity** and **stability**.

The table below shows the specificity for both grades:

	GLD1	GLD3
D (+)-Glucose:	100%	100%
D (+)-Galactose:	0.41%	0.27%
D (+)-Maltose:	0.30%	0.67%
D (+)-Mannose:	4.50%	1.73%
D (+)-Xylose:	12.40%	1.60%
2-deoxy-D-glucose:	43.20%	39.8%

Specificity was measured by substituting different sugars (concentration 200mM) for glucose in the BBI FAD-GDH assay.

Which grade's right for me?

Our two grades of FAD-GDH (GLD1 and GLD3), offer proven performance in a range of systems, the decision on which one's right for you will depend on your individual platform.

Order your evaluation sample today

sales@bbisolutions.com or +44 (0) 2920 767 499

Product code:

GLD3

Systematic Name:

D-Glucose: (flavin adenine dinucleotide) dehydrogenase

Product Specification

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Product:	GLUCOSE DEHYDROGENASE (FAD-dependent)
Product code:	GLD3
E.C. number:	1.1.99.10
CAS number:	9035-82-9
EINECS number:	232-907-4
Systematic name:	D-Glucose: (flavin adenine dinucleotide) dehydrogenase
Alternative name:	Glucose dehydrogenase (FAD-) (III)
Source:	Microorganism
Form:	Yellow freeze dried material.
Storage conditions:	Store desiccated at -15°C or below. Allow to come to room temperature before opening. Before returning to storage, re-desiccate under vacuum over silica gel for a minimum of four hours.
Unit definition:	That amount of enzyme causing the reduction of one micromole of 2,6-Dichlorophenol-indophenol per minute at 37°C and pH 6.5.
Activity:	Not less than 300 U/mg material
Solubility:	Dissolves readily at 5mg/ml in 0.05M potassium phosphate buffer, pH 5.6 to give a clear solution.

New product for blood glucose monitoring now available

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