

Certificate of Analysis



YSI Incorporated


Yellow Springs Instrument Co., Yellow Springs, Ohio 45387 USA

Phone 937 767-7241 • 800 765-4974 • Fax 937 767-9353

Product Category Bioanalytical Standard
Product Model Number 2780
Lot Number 24G100356
Method Comparative enzymatic testing of Production standard vs
Metrology standard

Chemistry Tested	Determination	Tolerance	Result
SUCROSE	(Average of Production)-(Average of Metrology)	±0.3g/L	0.01g/L
	Coefficient of variation for production standard (CV,%)	≤2.0%	0.7 %

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by: Nick Rittenhouse 

Date: 7/18/2024 7/18/2024





Certificate of Analysis

1725 Brannum Lane
Yellow Springs, Ohio
45387-1107 USA
+1 937-767-7241

Product Category ISE Reagent
Product Model Number 2971 (1000 mg/L Potassium, 10 mg/L Ammonium)
Lot Number 24G100349
Method Comparative ISE testing of Production reagent vs. Metrology reagent

Testing Results

Chemistry Tested	Determination	Tolerance	Result
Potassium	(Average of Production) – (Average of Metrology)	≤ 20 mg/L (2%)	11.29
	Coefficient of Variation (CV) for Production reagent	$\leq 3\%$	1.25

The procedures used to manufacture and test this product have been verified by QA for GMP compliance.

Technician

Amanda Fenner

Date

7/17/2024

7/17/2024

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a xylem brand

Product Category Buffer and solid products
Product Model Number 1579
Lot Number 24G100346
Method Verification of mass and pH (for buffers)

Determination	Specification	Result
Average mass	N/A	N/A
Average Ph (buffers only)	9.00 ± 0.10	8.97

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by:

Amanda Fenner

A handwritten signature in black ink, appearing to read 'Amanda Fenner', written over a horizontal line.

Date:

7/17/2024

7/17/2024



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Product Category Bioanalytical Standard
Product Model Number 2747
Lot Number 24G100345
Method Comparative enzymatic testing of Production standard vs Metrology standard

Chemistry Tested	Determination	Tolerance	Result
GLUCOSE	(Average of Production)-(Average of Metrology)	$\pm 0.01\text{g/L}$	0.002 g/L
	Coefficient of variation for production standard (CV,%)	$\leq 2.0\%$	0.67 %
LACTATE	(Average of Production)-(Average of Metrology)	$\pm 0.01\text{g/L}$	0.001 g/L
	Coefficient of variation for production standard (CV,%)	$\leq 2.0\%$	0.71 %

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by:

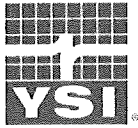
Nick Rittenhouse

Date:

7/17/2024

7/17/2024





Certificate of Analysis

1725 Brannum Lane
Yellow Springs, Ohio
45387-1107 USA
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Product Category ISE Reagent
Product Model Number 7179 (100 mg/L Ammonium, 200 mg/L Potassium)
Lot Number 24G100179
Method Comparative ISE testing of Production reagent vs. Metrology reagent

Testing Results

Chemistry Tested	Determination	Tolerance	Result
Ammonium	(Average of Production) – (Average of Metrology)	≤ 2 mg/L (2%)	0.33
	Coefficient of Variation (CV) for Production reagent	$\leq 3\%$	1.34
Potassium	(Average of Production) – (Average of Metrology)	≤ 4 mg/L (2%)	2.70
	Coefficient of Variation (CV) for Production reagent	$\leq 3\%$	1.49

The procedures used to manufacture and test this product have been verified by QA for GMP compliance.

Technician

Amanda Fenner

Date

7/16/2024

7/16/2024

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Product Category Bioanalytical Standard
Product Model Number 2785
Lot Number 24G100347
Method Comparative enzymatic testing of Production standard vs
Metrology standard

Chemistry Tested	Determination	Tolerance	Result
GLUCOSE	(Average of Production)-(Average of Metrology)	±0.13g/L	0.01 g/L
	Coefficient of variation for production standard (CV,%)	≤2.0%	1.05 %
GALACTOSE	(Average of Production)-(Average of Metrology)	±0.13g/L	0.07 g/L
	Coefficient of variation for production standard (CV,%)	≤2.0%	0.99 %

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by:

Amanda Fenner

Date: 7/18/2024

7/18/2024



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Product Category Membrane
Product Model Number 2329
Lot Number 24G100308
Method Amperometric testing with standards

Time of Testing	Determination	Specification	Results
Initial	Average Calibration Sensitivity	6.0-30.0 nA	15.9 nA
	Average Linearity	14.3-15.7mmol/L	14.97 mmol/L
	Potassium Ferrocyanide	-0.3 - 0.3mmol/L	0.00 mmol/L

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by: Sandy Crawford

Date: 7/15/2024

A handwritten signature in cursive script that reads "Sandy Crawford".



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Phone 937 767-7241 • 800 765-4974 • Fax 937 767-9353

Product Category Membrane
Product Model Number 2329
Lot Number 24G100307
Method Amperometric testing with standards

Time of Testing	Determination	Specification	Results
Initial	Average Calibration Sensitivity	6.0-30.0 nA	13.3 nA
	Average Linearity	14.3-15.7mmol/L	15.01 mmol/L
	Potassium Ferrocyanide	-0.3 - 0.3mmol/L	0.00 mmol/L

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by: Sandy Crawford

Date: 7/15/2024



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Product Category Bioanalytical Standard
Product Model Number 2776
Lot Number 24G100353
Method Comparative enzymatic testing of Production standard vs Metrology standard

Chemistry Tested	Determination	Tolerance	Result
GLUCOSE	(Average of Production)-(Average of Metrology)	$\pm 0.03\text{g/L}$	0.00 g/L
	Coefficient of variation for production standard (CV,%)	$\leq 2.0\%$	1.2 %
LACTATE	(Average of Production)-(Average of Metrology)	$\pm 0.01\text{g/L}$	0.00 g/L
	Coefficient of variation for production standard (CV,%)	$\leq 2.0\%$	1.2 %

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by: Nick Rittenhouse 

Date: 7/18/2024 7/18/2024



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Product Category Bioanalytical Standard
Product Model Number 2356
Lot Number 24G100355
Method Comparative enzymatic testing of Production standard vs
Metrology standard

Chemistry Tested	Determination	Tolerance	Result
GLUCOSE	(Average of Production)-(Average of Metrology)	±25mg/L	1.6 mg/L
	Coefficient of variation for production standard (CV,%)	≤2.0%	1.1 %

The procedures used to manufacture and test this product have been verified by QA for compliance. The electronic signature below is representative of the Chemistry Technician testing and verifying conformity to acceptance criteria.

Completed by:

Nick Rittenhouse

Date: 7/18/2024

7/18/2024

