



YSI Biochemistry Analyzer Selection Guide



a xylem brand

YSI Product Selection Guide

1. Choose Chemistries

Use the Chemistry Compatibility Chart to select your chemistries. Keep in mind that some chemistries have mandatory partner chemistries and other chemistries must be run alone.

Mandatory partner chemistries:

- Xylose (must be run with Glucose)
- Sucrose (Glucose)
- Glutamine (Glutamate)
- Ammonium (Potassium)

Solitary chemistries (must be run alone on a module):

- Methanol
- Hydrogen Peroxide

2. Select Instrument

Use the Instrument Selector Flow Chart to determine the number and type of modules you need. Then, use this information to select your instrument.

1 module:

- 2900D
- 2900M
- 2950D-0

2 modules:

- 2950D-1
- 2950D-4

3 modules:

- 2950D-2
- 2950D-3

3. Add Accessories

Use the Accessories page to identify accessories like:

- Bottle Racks with Reagent Level Sensing
- Printer
- Sample racks
- Sample multi-well plates

4. Select a Reagent Starter Kit

Typically includes:

- Buffer
- Membrane
- Standard for calibration
- Standard for linearity
- Potassium ferrocyanide (FCN)
- NaCl

1. Choose chemistries

Each chemistry will run on a module containing 2 sensors. Chemistries may require different sensor types or buffers to run properly. Use the chart shown here to select compatible chemistry pairs for each module.

Module 1

Chemistries:

Module 2

Chemistries:

Module 3

Chemistries:

Chemistry Compatibility Chart

Can be run together:

First chemistry	Compatible with:
Choline	Glucose Glutamate Lactate
Ethanol	Glucose Lactate
Ethanol HC	Glucose
Galactose	Glucose
Glucose	Choline Ethanol Ethanol HC Galactose Glutamate Glycerol Lactate Lactose Sucrose Xylose
Glutamate	Choline Glucose Glutamine Lactate
Glycerol	Glucose
Lactate	Choline Ethanol Glucose Glutamate
Lactose	Glucose

Must be run together:

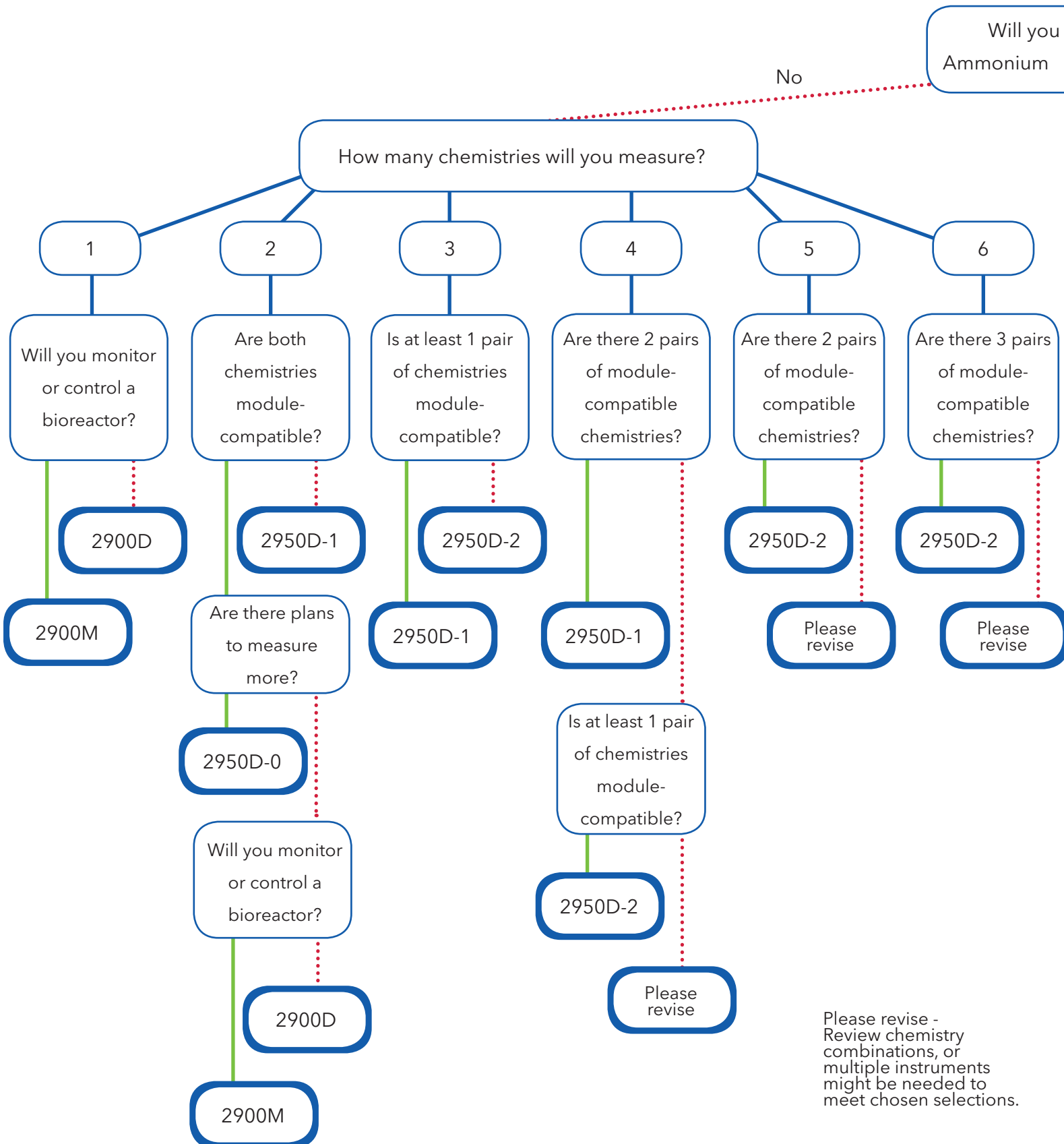
First chemistry	Must be run with:
Ammonium	Potassium
Glutamine	Glutamate
Sucrose	Glucose
Xylose	Glucose

Must be run alone:

First chemistry	Second chemistry:
Methanol	None
Hydrogen peroxide	None

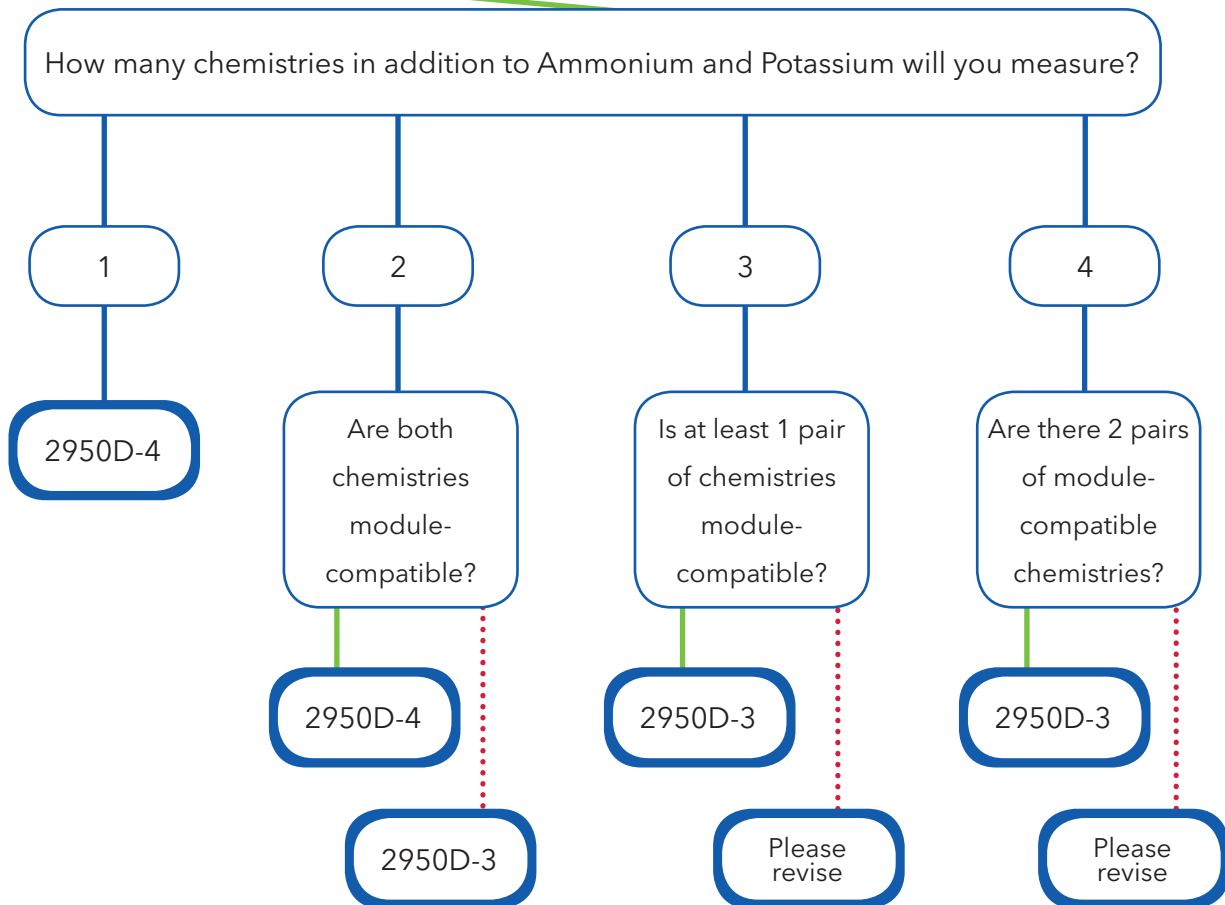
2. Select Instrument

Use the flowcharts on these 2 pages to determine the instrument model you should order.



measure
or Potassium?

— Yes
..... No



Please revise - Review chemistry combinations, or multiple instruments might be needed to meet chosen selections.

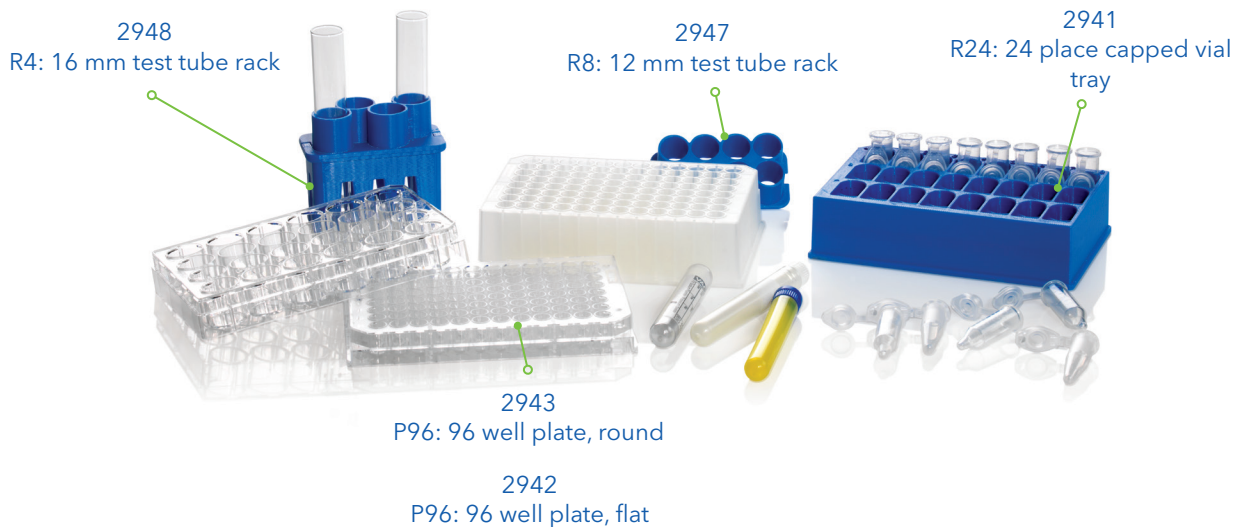
Instrument Selection Summary

Model	Description	Model	Description
2900D	Biochemistry Analyzer with One BIOSENSOR Module	2950D-2	Three BIOSENSOR Modules
2900M	Biochemistry Analyzer with Online Monitoring and Control System with One BIOSENSOR Module	2950D-3	Two BIOSENSOR and One ISE Module
2950D-0	One BIOSENSOR Module	2950D-4	One BIOSENSOR and One ISE Module
2950D-1	Two BIOSENSOR Modules		

3. Add Accessories



Product Number	Description
2901	Printer
2936	Bottle Rack with Reagent Level Sensing (2 chambers)
2938	Bottle Rack with Reagent Level Sensing (1 chamber)
2941	R24: 24 Place capped vial tray
2942	P96: Flat bottom 96 well plate
2943	P96: Round bottom 96 well plate
2944	X-Pierce Films (Cover 96 well plates)
2945	R24: 12 mm Glass vial tray
2947	R8: 12 mm Test tube rack
2948	R4: 16 mm Test tube rack
2988	Preventative Maintenance Kit (2900)
2989	Preventative Maintenance Kit (2950)



4. Select a Starter Kit

One Chemistry

Model 2900 Choline

- (1) 2357 Buffer
- (1) 2771 Choline membrane kit
- (1) 2772 Choline std for cal
- (1) 2773 Choline std for lin
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Model 2900 Dextrose(Glucose)

- (2) 2357 Buffer
- (1) 2365 Glucose membrane kit
- (1) 2776 Dextrose/Lactate std for cal
- (1) 2777 Dextrose/Lactate std for lin
- (1) 1531 Dextrose std for lin
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Model 2900 Ethanol

- (4) 1579 Buffer
- (1) 2786 Ethanol membrane kit
- (1) 2790 Ethanol std kit
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Model 2900 Ethanol HC

- (2) 2787 Buffer
- (1) 7150 HC Ethanol membrane kit
- (1) 7151 HC Ethanol std kit
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Model 2900 Glutamate

- (1) 2357 Buffer
- (1) 2754 Glutamate membrane kit
- (1) 2755 Glutamate std for cal
- (1) 2756 Glutamate std for lin
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Hydrogen Peroxide

- (1) 2357 Buffer
 - (1) 2701 Blank membrane kit
 - (1) 2363 Potassium ferrocyanide
 - (1) 2392 NaCl
- (YSI does not offer standards)

Model 2900 Lactate

- (1) 2357 Buffer
- (1) 2329 Lactate membranes
- (1) 2776 Dextrose/Lactate std for cal
- (1) 1530 L-Lactate std for lin
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Model 2900 Lactose

- (1) 2705 Buffer
- (1) 2702 Lactose membranes
- (1) 2783 Lactose std for cal
- (1) 2784 Lactose std for lin
- (1) 2392 NaCl

Model 2900 Methanol

- (1) 1579 Buffer
- (1) 2725 Methanol membrane kit
- (1) 2726 Methanol std kit
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Two Chemistries

Model 2900 Glucose/Lactate

- (2) 2357 Buffer
- (1) 2365 Glucose membrane kit
- (1) 2329 Lactate membrane kit
- (1) 2776 Dextrose/Lactate std for cal
- (1) 1531 Dextrose std for lin
- (1) 1530 L-Lactate std for lin
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl

Model 2900 Glucose/Xylose

- (2) 2357 Buffer
- (1) 2365 Glucose membrane kit
- (1) 2761 Xylose membrane kit
- (1) 2776 Dextrose/Lactate cal std
- (1) 2767 Xylose cal std, 20 g/L
- (1) 1531 Dextrose lin std
- (1) 2768 Xylose lin std, 30 g/L
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

2738 Model 2900 Glutamine/Glutamate

- (2) 2357 Buffer
- (1) 2735 Glutamine membrane kit
- (1) 2754 Glutamate membrane kit
- (1) 2736 Glutamine cal std, 5 mM
- (1) 2755 Glutamate cal std, 5 mM
- (1) 2737 Glutamine lin std, 8 mM
- (1) 2756 Glutamate lin std, 10 mM
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl

Model 2900 Sucrose/Dextrose

- (1) 2357 Buffer
- (1) 2365 Glucose membranes
- (1) 2703 Sucrose membranes
- (1) 2776 Dextrose/Lactate std for cal
- (1) 2778 Sucrose std for cal
- (1) 2777 Dextrose/Lactate std for lin
- (1) 1531 Dextrose std for lin
- (1) 2780 Sucrose std for lin
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl solution

Three + Chemistries

Model 2950 Glucose/L-lactate/ Glutamine/Glutamate

- (2) 2357 Buffer
- (1) 2365 Glucose membrane kit
- (1) 2329 Lactate membrane
- (1) 2735 Glutamine membrane kit
- (1) 2754 Glutamate membrane kit
- (1) 1531 Glucose std, 9.0 g/L
- (1) 1530 Lactate std, 30 mM
- (1) 2776 Glucose/Lactate dual std, 2.5 g/L/0.50g/L
- (1) 2736 Glutamine std, 5.00 mM
- (1) 2737 Glutamine std, 8.00 mM
- (1) 2755 Glutamate std, 5.00 mM
- (1) 2756 Glutamate std 10.0 mM
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl

Model 2950 Glucose/L-lactate/ Glutamine/Glutamate/Ammonium & Potassium

- (2) 2357 Buffer
- (4) 2970 ISE Buffer
- (1) 2365 Glucose membrane kit
- (1) 2329 Lactate membrane
- (1) 2735 Glutamine membrane kit
- (1) 2754 Glutamate membrane kit
- (1) 1531 Glucose std, 9.0 g/L
- (1) 1530 Lactate std, 30 mM
- (1) 2776 Glucose/Lactate dual std, 2.5 g/L/0.50 g/L
- (1) 2736 Glutamine std, 5.00 mM
- (1) 2737 Glutamine std, 8 mM
- (1) 2755 Glutamate std, 5 mM
- (1) 2756 Glutamate std 10 mM
- (1) 2972 Ammonium std, 500 mg/L
- (1) 2971 Potassium std, 1000 mg/L
- (1) 7179 Check solution, 100 mg/L NH₄⁺, 200 mg/L K⁺
- (1) 7173 Sodium chloride check solution
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl

Model 2950 Glucose/L-lactate/ Ammonium & Potassium

- (2) 2357 Buffer
- (4) 2970 ISE Buffer
- (1) 2365 Glucose membrane kit
- (1) 2329 Lactate membrane
- (1) 1531 Glucose std, 9.0 g/L
- (1) 1530 Lactate std, 30 mM
- (1) 2776 Glucose/Lactate dual std, 2.5 g/L/0.50 g/L
- (1) 2972 Ammonium standard, 500 mg/L
- (1) 2971 Potassium standard, 1000 mg/L
- (1) 7179 Check solution, 100 mg/L NH₄⁺, 200 mg/L K⁺
- (1) 7173 Sodium chloride check solution
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl

Model 2950 Glucose/L-lactate/ Ammonium & Potassium/Ethanol

- (2) 2357 Buffer
- (4) 1579 Buffer
- (4) 2970 ISE Buffer
- (1) 2365 Glucose membrane kit
- (1) 2329 Lactate membrane
- (1) 2786 Ethanol membrane
- (1) 1531 Glucose std, 9.0 g/L
- (1) 1530 Lactate std, 30 mM
- (1) 2776 Glucose/Lactate dual std, 2.5 g/L/0.50 g/L
- (1) 2790 Ethanol standards kit
- (1) 2972 Ammonium std, 500 mg/L
- (1) 2971 Potassium std, 1000 mg/L
- (1) 7179 Check solution, 100 mg/L NH₄⁺, 200 mg/L K⁺
- (1) 7173 Sodium chloride check solution
- (1) 2363 Potassium ferrocyanide
- (1) 2392 NaCl

Membrane and Probe Information

Chemistry	Typical Working Life (days)	Membrane Color
Ammonium	90	No membrane
Choline	7	Orange
Ethanol	5	Green
Ethanol HC	5	Magenta
Galactose	10	White
Glucose	21	Dark red
Glutamate	7	Yellow
Glutamine	5	Magenta
Glycerol	10	Magenta
Hydrogen Peroxide	21	Yellow
Lactate	14	Gray
Lactose	10	White
Methanol	5	Black
Potassium	90	No membrane
Sucrose	10	Blue
Xylose	10	Orange



YSI 2900 and 2950 operation and technology may be covered by one or more of the following U.S. patents: 6,020,052 and 5,766,839.

For more information, please contact
YSI Life Sciences Technical Support at (800) 659-8865 or e-mail support@ysi.com



YSI Life Sciences
1725 Brannum Lane
Yellow Springs, Ohio 45387
USA
+1-800-659-8895
+1-937-767-7241
Fax: +1-937-767-8058
Email: support@ysi.com
www.ysilifesciences.com

YSI (UK) Ltd.
119 Fleet Road
Fleet, Hampshire, GU51 3PD
England
+44-1252 819844
Fax: +44-1252 819544
Email: UKinfo@ysi.com
www.ysiuk.com

YSI (Hong Kong) Limited
Room A, 11th Floor
Hoover Industrial Bldg.
26-38 Kwai Cheong Road
Kwai Hing New Territories
Hong Kong
+852 2891-8154
Fax: +852 2834-0034
Email: ysihk@ysi.com.hk