

EVER Scientific

DIAGNOSTICS DIVISION



EVER SCIENTIFIC

337 Gordon Drive, Exton, PA 19341 USA.

Tel: 610-524-5810

Fax: 610-524-5814

E-Mail: info@everscientific.com

Web#1: www.eversci-linearity.com

Web#2: www.everscientific.com

PRODUCT SPECIFICATIONS

Bilirubin Linearity Control

Cat No. ES5011

Configuration: 6 Levels x 5mL (Ampules)
Storage: 2 - 8° C
Stability: 24 Months

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
Direct Bilirubin	1.0	4.0	7.0	10.0	15.0	20.0	mg/dL
Total Bilirubin	1.5	6.0	10.5	15.0	22.5	30.0	mg/dL

Multi-Enzyme Linearity Control

Cat No. ES5015 or ES5021

Configuration: 6 Levels x 10 mL (Vials or Ampules)
Storage: - 20° C
Stability: 36 Months

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
ALP	100	200	300	400	700	1000	U/L
ALT	95	190	285	380	665	950	U/L
AMY	160	320	480	640	1120	1600	U/L
AST	90	180	270	360	630	900	U/L
CK	165	330	495	660	1155	1650	U/L
GGT	105	210	315	420	735	1050	U/L
LD	85	170	255	340	595	850	U/L

Blood Gas / ISE Linearity Control

Cat. No. ES5001

Configuration: 5 Levels x 10mL (Ampules)
Storage: 2 - 8° C
Stability: 36 Months

	Level 1	Level 2	Level 3	Level 4	Level 5	
pH	6.84	7.19	7.42	7.56	7.73	
PCO2	97.5	70	40	23	8	mm Hg
PO2	35	60	105	160	425	mm Hg
Sodium	100	123	143	163	185	mEq/L
Potassium	1.1	2	3.9	6.5	9	mEq/L
Calcium	4	3	2	1	0.5	mmol/L
Chloride	65	90	115	135	155	mEq/L
Lithium	0.3	0.9	1.6	2	3.8	mEq/L
Magnesium	2.3	1.5	1	0.5	0.15	mmol/L
Glucose	50	90	190	385	520	mg/dL
Lactate	1.5	2.5	5	7	11.5	mmol/L
BUN	7	10	26	40	90	mg/dL
Creatinine	9	7	4.5	2.3	0.75	mg/dL

***Note:** For the following four (4) analytes, Level 1 contains the highest concentration: PCO2, Calcium, Magnesium, and Creatinine. Concentrations of these analytes decrease from Level 1 down to Level 5.

Zero / Diluent Matrix

Cat. No. ES5050 or ES5051

Configuration: 10mL each
Storage: 2 - 8° C
Stability: 24 months

Description: For use in preparing customized dilutions of Ever Scientific calibration verification materials, or for use as a zero or near zero point in instrument linearity studies.

Protein-Based Zero Level: Strongly advised as a zero point when using Ever Scientific's Multi-Enzyme Linearity Control.

Aqueous-Based Zero Level: Strongly advised as a zero point when using Ever Scientific's Multi-Analyte Linearity Control.

Multi-Analyte Linearity Control

Cat No. ES5010 or ES5020

Configuration: 6 Levels x 5mL (Vials or Ampules)
Storage: 2 - 8° C
Stability: 24 Months

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
Albumin	0.6	1.2	1.8	2.4	4.2	6.0	mg/dL
Total Protein	1.2	2.3	3.5	4.6	8.1	11.5	g/dL
Cholesterol	50.0	100.0	150.0	200.0	350.0	500.0	mg/dL
Triglycerides	67.5	135.0	202.5	270.0	472.5	675.0	mg/dL
Calcium	2.0	4.0	6.0	8.0	14.0	20.0	mg/dL
Chloride	48.0	64.0	80.0	96.0	128.0	160	mmol/dL
Glucose	70.0	140.0	210.0	280.0	490.0	700.0	mg/dL
Phosphorous	1.2	2.4	3.6	4.8	8.4	12.0	mg/dL
BUN	12.8	25.6	38.4	51.2	89.6	128.0	mg/dL
Uric Acid	1.5	3.0	4.5	6.0	10.5	15.0	mg/dL
Magnesium	0.6	1.2	1.8	2.4	4.2	6.0	mg/dL
Carbon Dioxide	4.0	8.0	12.0	16.0	28.0	40.0	mmol/dL
Sodium	72.0	96.0	120.0	144.0	192.0	240	mmol/dL
Potassium	1.4	2.8	4.2	5.6	9.8	14.0	mmol/dL
Iron	71.0	142.0	213.0	284.0	497.0	710.0	µg/dL
Creatinine	2.4	4.8	7.2	9.6	16.8	24.0	mg/dL
Lactate	12.0	24.0	36.0	48.0	84.0	120.0	mg/dL
Lithium	0.7	1.4	2.1	2.8	4.9	7.0	mmol/dL

ISE / Metabolite Linearity Control

Cat No. ES5035

Configuration: 6 Levels x 5mL (Droppers)
Storage: Room Temperature
Stability: 24 Months

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
Magnesium	0	1	3	4	6	7	mg/dL
Lactate	3	34	66	97	129	160	mg/dL
Glucose	20	156	292	428	564	700	mg/dL
Creatinine	2	6	10	14	18	22	mg/dL
Sodium	80	104	128	152	176	200	mmol/dL
Potassium	2	4	6	8	10	12	mmol/dL
Calcium	2	5	8	11	14	17	mg/dL
Chloride	60	86	112	138	164	190	mmol/dL
Lithium	0	2	3	5	6	8	mmol/dL
Phosphorous	1	4	6	9	11	14	mg/dL
BUN	1	31	61	90	120	150	mg/dL

Co-Oximetry Linearity Controls

Cat No. ES5003, ES5005, or ES5007

Configuration: 5 Levels x 10mL
Storage: Room Temperature
Stability: 24 Months

For Bayer Rapidlab 800 Series Co-Oximeters

	Level 1	Level 2	Level 3	Level 4	Level 5
CtHb	4-6	7-9	12-14	18-22	25-29
ctO2Hb	10-15	20-25	35-40	45-50	55-65
FCO2Hb	0-1	3-5	8-12	15-20	25-30
FMetHb	1-3	4-6	8-10	12-14	16-18

For I.L 282 / 382 / 482 / 682 Series Co-Oximeters

	Level 1	Level 2	Level 3	Level 4	Level 5
tHb	4.6-6.5	6.5-8.5	12.5-14.5	16-18	19-21
O2Hb	34-42	50-60	59-67	68-76	88-96
COHb	38-46	24-30	13-17	1-5	< 0
MET	20-28	12-20	6-10	1-5	0-4

For Radiometer OSM3 / 500 / 600 Series Co-Oximeters

	Level 1	Level 2	Level 3	Level 4	Level 5
THb	4-6	8-10	14-16	18-22	25-30
HbO2	45-50	55-60	65-70	75-85	90-100
HbO2sat	90-100	75-85	65-70	55-60	45-50
HbCO	1-3	4-6	8-10	15-20	25-30
MET	0-2	4-6	8-10	12-14	18-20