

somalogic



**SomaScan Assay
LabThread SLX
Equipment List for
Authorized Sites**

SOMASCAN ASSAY EQUIPMENT LIST



INTRODUCTION

This document outlines the required and optional equipment needed to run the SomaScan™ Assay. Tables 1–4 list the assay-specific required equipment; these components must be used as specified and cannot be substituted with alternate part numbers or vendors. Table 5 lists required general laboratory equipment, with vendor and part numbers provided as examples; equivalent equipment is acceptable. Table 6 lists optional equipment that enables higher throughput or enhanced sample tracking.

TABLE 1: REQUIRED FLUID HANDLING SYSTEM

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	420-00001	LabThread™ Automation Equipment SLX	1	Yes

TABLE 2: REQUIRED EQUIPMENT BUNDLE

This equipment must be purchased as a bundle.

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	902-00020	Tygon High Purity Tubing	1	
		Assay, Waste Trough	1	Yes
		Waste Bottle	1	
		Waste Bottle Closure	1	
		Threaded Barb Fitting for Waste Trough	3	
		Screwdriver, Ball-End Hex, 4 mm Size, 11-1/2" Overall Length	1	
		Gravity-Fed Reagent Trough	1	Yes
		Thermal Adapter	7	Yes
		Copper Reagent Heat Block	1	Yes
		Deck Segment, Photocleavage Mounting	1	Yes
		Deck Segment, TMS Shaker Mounting	1	Yes
		Deck Segment, Heat Plate Mounting	1	Yes
		Slide Dropper	1	Yes
		LabThread Thermal Magnetic Shaker	3	Yes
		LabThread Thermal Magnetic Shaker Control Box	1	Yes
Thermal Adapter Ejection Tool	1	Yes		

TABLE 2: REQUIRED EQUIPMENT BUNDLE *continued**This equipment must be purchased as a bundle.*

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	902-00020	4 Serial Port Expansion Device	1	Yes
		USB Cable for 4 Serial Port Expansion Device	1	Yes
		International Power Strip with 6 Outlets	1	Yes
		AC Patch Cord – Short	3	Yes
		AC Patch Cord – Long	1	Yes
		Hook and Loop Cable Ties, 6" Overall Length, 3/8" Wide	1	
		Flame-Retardant Hook and Loop, Adhesive Backing, 1"W x 5'L	1	
		LED UV Photocleavage Lamp Mounting Bracket	1	Yes
		LED UV Lamp	2	Yes
		Ribbon Cable Assembly for LED UV Lamp	1	Yes
		Disposable Biomedical Waste Container	1	
		Cardboard Recyclables Waste Container	1	
		18-8 Stainless Steel Shoulder Screw, 5/16" Shoulder Diameter	2	Yes
		18-8 Stainless Steel Flange Nut, 10-24 thread size 5/16"	2	Yes
		Cabinet Divider Wall	1	Yes
		Wireless Keyboard and Mouse Combo	1	Yes
		Monitor and Keyboard Mount	1	Yes
		Computer Monitor, 24 Inch	1	Yes
		Mounting Bracket for LabThread SLX	1	Yes
		Display Port Cable 3M	1	Yes
USB Cable A to B 3M	1	Yes		
Screw-In Hook and Loop Cable Tie Mount, 12/Pk	1			

TABLE 2: REQUIRED EQUIPMENT BUNDLE *continued**This equipment must be purchased as a bundle.**NOTE: These are the Ambient items for the qualification kit. This will be a separate line item in an order.*

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	801-00004	Tube, 500 μ L 2D Barcoded, V Bottom White Screw Top, Sterile, 480/Cs	1	
		Foil Plate Seal, 100/Pk	1	
		Gaskets, 8 HD Arrays/Slide	16	
		Adapter 96-Well Plate	60	
		Plate, 96-Well 2 mL Deep-Well, Non-Sterile	15	
		Plate, Corning 96-Well, Black w/Clear Bottom – 1 Plate	25	
		Lids, Microplates, 100/Pk	1	
		Troughs, Beckman Auto Reservoir, 96 Channel, 1 Trough	10	
		Plate, Nunc 96-Well, Round Bottom, 500 μ L, 1 Plate	50	
		Trough, Tecan 96-Well, Deep Well Reagent Reservoir – 1 Trough	50	
		Basin, Biologix, PVC, 100-Pack/Each	1	
		Plate, Nunc 96-Well, Conical Bottom, 300 μ L	30	
		Filled Bottle, 2x Hybridization Buffer	4	
		SomaScan 11K Assay v5.0 – Components, Ambient 2 Slide Kit	6	
		ART 20 SoftFit-L (Rainin LTS Tips) – 1 Rack	10	
		ART 200 SoftFit-L (Rainin LTS Tips) – 1 Rack	10	
		ART 300 SoftFit-L (Rainin LTS Tips) – 1 Rack	10	
		ART 1000 SoftFit-L (Rainin LTS Tips) – 1 Rack	1	
		Bottle, Square PETG Media, 125 mL	4	
		Bottle, Square PETG Media, 60 mL	4	
		Bottle, Square PETG Media, 30 mL	4	
		Tube, Screw Top w/o Cap, 2 mL	2	
		Screw Cap for Microtube, w/ O-ring, Polypropylene (yellow)	2	
Tube, Matrix 1 mL 2D Screw Top, Amber PP, V Bottom w/o Caps,	2			

TABLE 2: REQUIRED EQUIPMENT BUNDLE *continued**This equipment must be purchased as a bundle.**NOTE: These are the Ambient items for the qualification kit. This will be a separate line item in an order.*

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	801-00004	Bottle, Narrow-Mouth PETG, 5 mL	4	
		Tube, 500 µL 2D Barcoded, V Bottom White Screw Top, Sterile	6	
		Tube, 500 µL 2D Barcoded, V Bottom Green Screw Top, Sterile	6	
		Tube, 500 µL 2D Barcoded, V Bottom Red Screw Top, Sterile	10	
		Caps, Screw Tube, Clear, Sterile	2	
		Bottle, Round w/Cap, 10 mL, PETG	2	

TABLE 3: REQUIRED EQUIPMENT BUNDLE*These SomaScan Startup Kits are included in the Custom Equipment Bundle (902-00020)*

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	801-00005	Torque Wrench Assembly (Torque Limiter, Hex Shank)	1	
		Disassembly Screwdriver (Torx T-Handle Key, T10 Size, 4-15/16" Long)	1	
		Wash Basin (Nestable Plastic Tote Box)	1	
		VWR Spatula with PVC Handle	1	
		Leak Detector Tube Placement Aid	1	
		Top Frame 1, 4x12	1	Yes
		Top Frame 2, 4x12	1	Yes
		Bottom Frame, 4x	2	Yes
		Gasket Applicator, 4x12	2	
		Slide Release Tool, 4x	1	
		Slide Ejector, 4x	1	
		Stainless Steel Pan Head Torx Screws, T10 Drive, M3 – 10 mm	100	
		4x12 Gasket (includes 1 gasket)	2	
Hybridization Foil Seals	10			
Threaded Steel Studs, M3x0.5mm, 18mm Long	1			

TABLE 3: REQUIRED EQUIPMENT BUNDLE *continued**These SomaScan Startup Kits are included in the Custom Equipment Bundle (902-00020).*

VENDOR	PART NUMBER	ITEM	QUANTITY	UNDER WARRANTY
SomaLogic	801-00006	Torque Screwdriver Assembly	1	
		Disassembly Screwdriver (Torx T-Handle Key, T10 Size, 4-15/16" Long)	1	
		Wash Basin (Nestable Plastic Tote Box)	1	
		Top Frame, 4x24	1	Yes
		Bottom Frame, 4x	1	Yes
		Gasket Applicator, 4x24	1	
		Slide Release Tool, 4x	1	
		Slide Ejector, 4x	1	
		VWR Spatula with PVC Handle	1	
		Leak Detector Tube Placement Aid 4x24	1	
		Threaded Steel Studs, M3x0.5mm, 18mm Long	1	
		Stainless Steel Pan Head Torx Screws, T10 Drive, M3 – 10 mm	100	
		4x24 Gasket (Includes 1 Gasket)	2	
		Hybridization Foil Seals	10	

TABLE 4: REQUIRED EQUIPMENT*This equipment is required and cannot be replaced with different vendors and/or part numbers.*

VENDOR	ITEM	QUANTITY	PART NUMBER	NOTES
Agilent Technologies	SureScan Microarray Scanner	1	G4900DA	
	Hybridization Chamber Kit – SureHyb Enabled	12	G2534A	
	Hybridization Oven	1	G2545A	
	Hybridization Oven Rotator Rack	1	G2530-60029	
SPT Lab Tech	BioMicrolab Thaw	1	BioMicrolab Thaw	
Cole-Parmer	Staining Dish System; 50-Slide Capacity	1	EW-48585-10	
Rainin	Rainin Span 6 Pipettor (300 µL)	1	LA6-300XLS	
Grant Instruments	Quad Microplate Shaker-Incubator (GrantBio 4-Position Shakers)	1	PHMP-4	Either 1 GrantBio shaker or 3 Eppendorf Thermomixer C are needed.
Thermo Fisher Scientific	Matrix Tube Decapper	1	4105MAT	

TABLE 4: REQUIRED EQUIPMENT – SLIDE WASH OPTIONS *continued*

VENDOR	ITEM	QUANTITY	PART NUMBER	NOTES
SciGene (<i>option 1: Automatic Wash</i>)	Little Dipper Slide Washer	1	1080-40-1	
VWR (<i>option 2: Manual Wash</i>)	Magnetic Hotplate Stirrer, 5 L, with Temperature Probe	1	76549-918	Hot plate with temp control
	5L Stir Plate	1	76549-916	Stir plate for RT washes
	16-32 Slide Rack, Glass	1	53500-434	Slide rack for 16-slide capacity (case of 3)
	Dish	1	25461-016	Slide dish (case of 3)
	Cover	1	25461-018	Dish cover for ACN (case of 1)
	Stir Bars	3	58947-106	Stir bar x3
	Assembly Clamp for H3770 and H3710	1	76640-758	Stirrer support rod clamping kit (rod, 2 clamps and hook connector)

TABLE 5: STANDARD LABORATORY EQUIPMENT*This equipment is required but suggested parts can be replaced with equivalent equipment.*

VENDOR	ITEM	QUANTITY	PART NUMBER	NOTES
Eppendorf	Centrifuge 5804, Keypad, Non-Refrigerated, with Rotor A-2-DWP, US 3	1	22628203	Ability to centrifuge matrix tube racks and 96-well plates. Dimension of the racks and tubes is 5.029±0.005" (L) x 3.364±0.005" (W) x 1.745±0.010" (H).
VWR	Digital Incubator (37 °C)	1	414005-130	Minimum interior dimensions: 10" D x 14" W x 16" H
Agilent	Agilent Synergy H1 Plate Reader (SH1M-SN)	1	SH1M-SN	Ability to do bottom read with excitation wavelength of 535 nm and detect emission wavelength of 575 nm with a cutoff wavelength of 570 nm. Used in QC step of the eluate before hybridization. Absorbance reading capabilities required if analysis of urine samples is desired.
No specific vendor requirements	Vortex Mixer	1		
	p200 8- or 12-Channel Pipette, Manual	1		
	p20 8- or 12-Channel Pipette, Manual	1		
	p1000 Single-Channel Pipette, Manual	1		
	4 °C Refrigerator	1		
	-80 °C Freezer	1		
	-20 °C Freezer	1		
	Flammable Cabinet	1		Acetonitrile storage
	Lab Timer	1		
	Biohazard Waste Containers	1		
	Microcentrifuge	1		Capable of spinning 1.5–2 mL screw top tubes

TABLE 6: OPTIONAL EQUIPMENT*This optional equipment is used to enable higher throughput and enhanced sample tracking.*** Cannot be replaced with different vendors and/or part numbers.*

VENDOR	ITEM	QUANTITY	PART NUMBER	NOTES
Thermo Fisher Scientific	VisionMate High Speed Barcode Reader (or similar)	1	312800	Used in 2D barcode scanning to track sample tube samples.
	ALPS 50 V-Manual Heat Sealer	1	AB-1443A	Recommended for long-term storage of archive plates.
Life Technologies*	Magnetic-Ring Stand (96-Well)	1	AM10050	Used in hybridization from archive plate when controls are hybridized for QC purposes.
Agilent Technologies	Agilent Hybridization Chamber SureHyb Enabled, Stainless	12 additional	G2534A	For use when running 2 assay runs per day.
U.S. Plastic Corp*	Tubing for Refillable Reagent Trough (1/4" ID x 3/8" OD x 1/16" Wall)	20 feet	57579	Used in maintenance.
Eppendorf*	ThermoMixer C Eppendorf with Eppendorf Smart Block Plates and Eppendorf Thermotop	3		Either 1 GrantBio shaker or 3 Eppendorf Thermomixer C are needed. Can be replaced by Grant Instruments Quad Microplate Shaker-Incubator 4-Position.
Powervar	Powervar Security II UPM	1	ABCE1442-11	Used as UPS battery backup, can be purchased from either Powervar or Tecan.
Tecan	Powervar Security II UPM	1	30106582	
Thomas Scientific	Dry-Keeper Desiccator with Gas Ports	1	1226D47	Storage of unused Agilent slides once package is opened.

