



SomaScan[®] Assay Equipment List for Authorized Sites

SOMASCAN[®] ASSAY

EQUIPMENT LIST



INTRODUCTION

This document lists the required and optional equipment needed to run the SomaScan Assay. The first table contains the required equipment specific to the SomaScan Assay. None of the components can be changed to different part numbers and vendors. The second table lists required laboratory equipment with vendor and part numbers listed as examples, but equivalent equipment is acceptable. The third table lists optional equipment that is used at SomaLogic and which enables higher throughput or enhanced sample tracking.

REQUIRED FLUID HANDLING SYSTEM (TABLE 1)

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

REQUIRED EQUIPMENT BUNDLE (TABLE 2)

This bundle is purchased from SomaLogic and 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		

REQUIRED EQUIPMENT BUNDLE (TABLE 2) *continued**This bundle is purchased from SomaLogic and 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			

REQUIRED EQUIPMENT BUNDLE (TABLE 2) *continued*

This bundle is purchased from SomaLogic and must be purchased as a bundle.

NOTE - These items are the Ambient items for the qualification kit - it 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, 125mL	4	
		Bottle, Square PETG Media, 60mL	4	
		Bottle, Square PETG Media, 30mL	4	
		Tube, Screw Top w/o Cap, 2mL	2	
		Screw Cap for Microtube, w/ O-ring, Polypropylene (Yellow)	2	
		Tube, Matrix 1mL 2D Screw Top, Amber PP, V Bottom w/o Caps,	2	

REQUIRED EQUIPMENT BUNDLE (TABLE 2) *continued*

This bundle is purchased from SomaLogic and must be purchased as a bundle.

NOTE - These items are the Ambient items for the qualification kit - it will be a separate line item in an order

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

REQUIRED EQUIPMENT (TABLE 3)

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

REQUIRED EQUIPMENT – SLIDE WASH OPTIONS

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

STANDARD LABORATORY EQUIPMENT (TABLE 4)

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 ea	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 ea	414005-130	Minimum interior dimensions: 10" D x 14" W x 16" H
Molecular Devices	Fluorescence and Absorbance Plate Reader	1 ea	Varies	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 ea		
	p200 8 or 12-Channel Pipette, Manual	1 ea		
	p20 8 or 12-Channel Pipette, Manual	1 ea		
	p1000 Single Channel Pipette, Manual	1 ea		
	4 °C Refrigerator	1 ea		
	-80 °C Freezer	1 ea		
	-20 °C Freezer	1 ea		
	Flammable Cabinet	1 ea		Acetonitrile storage
	Lab Timer	1 ea		
	Biohazard Waste Containers	1 ea		
	Microcentrifuge	1 ea		Capable of spinning 1.5-2 mL screw top tubes

OPTIONAL EQUIPMENT (TABLE 5)

This optional equipment is used by SomaLogic 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 ea	312800	Used in 2D barcode scanning to track sample tube samples.
	ALPS 50 V-Manual Heat Sealer	1 ea	AB-1443A	Recommended for long term storage of archive plates.
Life Technologies*	Magnetic-Ring Stand (96-Well)	1 ea	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 two 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 ea		Either one GrantBio shaker or three Eppendorf Thermomixer C are needed. Can be replaced by Grant Instruments Quad Microplate Shaker-Incubator 4-position.
Powervar	Powervar Security II UPM	1 ea	ABCE1442-11	Used as UPS battery backup, can be purchased from either Powerwar or Tecan.
Tecan	Powervar Security II UPM	1 ea	30106582	
Thomas Scientific	Dry-Keeper Desiccator with Gas Ports	1 ea	1226D47	Storage of unused Agilent slides once package is opened.

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