# Equipment, Materials, & Reagents for Protein nCounter Assays on $GeoMx^{TM}$ DSP

See the tables below for information on equipment, materials, and reagents needed for GeoMx protein slide preparation and nCounter readout preparation. Separate lists are included for manual slide prep and for Leica Biosystems autostainer slide prep. This information is also available under **Support Documents** at www.nanostring.com/GeoMxDSP).

#### **EQUIPMENT**

The following pieces of equipment are recommended for the GeoMx DSP workflow but are not provided by NanoString.

Table 1: Equipment not provided by NanoString.

Stage	Equipment	Manufacturer	Part Numbers
General	Baking oven	Quincy Lab, Inc. (or comparable)	Various GC models
(optional)	UV Light Box	VWR	Various
MANUAL Slide Prep only	Note: A TintoRetriever Pressure Cooker is recommended for this protocol. Other alternatives may be acceptable, but have not been validated by NanoString and will require optimization. Any model used needs to have a temperature gauge.  The TintoRetriever is rated for 110V; a transformer is required for 220V.	BioSB	BSB 7008
LEICA Slide Prep only	BOND RX or RX <sup>m</sup> Compact, Fully Automated Advanced Stainer	<u>Leica Biosystems</u>	Contact Leica Biosystems
	BOND RX Controller, running BOND RX software version 6.0 and above	Leica Biosystems	Contact Leica Biosystems



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Stage	Equipment	Manufacturer	Part Numbers
nCounter	Vortex	Various	Various
Readout	Picofuge	Various	Various
	ALPS 50 plate sealer (see Materials list <u>(see</u> <u>Table 2)</u> for compatible heat-sealing foil)	Thermo Fisher	<u>AB-1443A</u>
	Heatblock or thermal cycler  Note: ensure that this is compatible with hybridization plate used (see the materials list for <a href="mailto:ncounter Readout on page 4">ncounter Readout on page 4</a> ).	Various, such as Bio-Rad C1000 deep-well model	Various, such as <u>1851197</u>
	Plate spinner/centrifuge (up to at least 2000 g)	Various	Various

### **M**ATERIALS

The following materials are recommended for the GeoMx DSP workflow but are not provided by NanoString.

Table 2: Materials not provided by NanoString.

Stage	Materials  Materials	Manufacturer	Part Numbers
General	Pipettes for 5–1,000 μL	Various	Various
	12-channel P20 multi-channel pipetter	Various	Various
	Filter Tips (RNase/DNase free)	Various	Various
	Microtubes	Sarstedt (or comparable)	<u>72.785.005</u>
	SuperFrost Plus microscopic slides	Fisher Scientific (or comparable)	12-550-15
	Tissue-Tek Staining Dish (plastic Coplin Jars) or equivalent	Sakura (or comparable)	25608-904 or 25608-906
	Humidity Chamber	Simport	<u>M920-1</u>
	Hydrophobic Barrier Pen	Vector Labs (or comparable)	<u>H-4000</u>
	Razor Blades	Various	Various
(optional)	Cover slips	Various	Various
MANUAL Slide Prep only	Heat/cold protectant handling glove	Various	Various
LEICA Slide Prep only	BOND Research Detection System (includes 6x 30 mL Open Containers)	Leica Biosystems	<u>DS9455</u>
	BOND Titration Kit (includes 50 inserts)	Leica Biosystems	<u>OPT9049</u>
	BOND Universal Covertiles	Leica Biosystems	<u>S21.2001</u>
	BOND Open Containers 30 mL (if	Leica Biosystems	<u>OP309700</u>



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Stage	Materials	Manufacturer	Part Numbers
	needed)		
	BOND Titration Container Inserts (if needed)	Leica Biosystems	<u>OPT9179</u>
nCounter Readout	Permeable membrane (dry-down seal, optional)	Sigma	<u>A9224</u>
	Eppendorf 96-Well twin.tec PCR Plates, semi-skirted, 250 µl  or 96-well plate (compatible with most thermocyclers)	Fisher Scientific	Cat. No. E951020346 BC2496
	96 well plate stickers (freezing and storing plates)	Various	Various
	Heat-sealing foil seals	Fisher Scientific	AB-0559

### **REAGENTS**

The following reagents are recommended for the GeoMx DSP workflow but are not provided by NanoString.

Table 3: Reagents not provided by NanoString.

Stage	Reagent	Source/ Part Number	Storage
General	DEPC-treated water	ThermoFisher, <u>AM9922</u> (or comparable)	RT
	10X tris buffered saline (TBS)	Cell Signaling Technologies, <u>Cat</u> # 12498S	RT
	10X tris buffered saline with tween 20 (TBS-T)	Cell Signaling Technologies, <u>Cat</u> #9997S	RT
	4 or 16% paraformaldehyde (PFA)  Note: Use only for post-fix step	Thermo Scientific, 4% concentration, Cat # FB002, R37814 16% concentration (must be diluted to 4%), Cat # 28906, 28908 (or comparable)	-20°C
	10X phosphate buffered saline pH 7.4 (PBS)	Sigma Aldrich, <u>SKU P5368-</u> 10PAK, <u>P5368-5X10PAK</u> (or comparable)	RT
(optional)	Fluoromount-G mounting media	SouthernBiotech, <u>Cat. No. 0100-</u> <u>01</u>	RT
MANUAL Slide Prep only	Citrisolv or Xylene	Fisher Scientific, Cat # 04-355- 121 Sigma Aldrich, SKU 183164- 100ML or 183164-500ML (or comparable)	RT
	100% ethanol (EtOH): ACS grade or better	Various	RT
	10X citrate buffer pH 6	Sigma Aldrich, SKU C9999- 100ML or C9999-1000ML (or	4°C



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Stage	Reagent	Source/ Part Number	Storage
		comparable)	
LEICA Slide Prep only	BOND Dewax Solution – 1 L	Leica Biosystems, AR9222	4°C or RT
	BOND Epitope Retrieval 1, 1 L	Leica Biosystems, AR9961	4°C
	BOND Wash Solution 10X Concentrate – 1 L	Leica Biosystems, AR9590	4°C

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