

GeoMx—nCounter Protein BOND RX Equipment, Materials, & Reagents

Slide Prep

The following equipment ([see Table 1](#)), materials ([see Table 2](#)), and reagents ([see Table 3](#)) are recommended for this protocol but are not supplied by NanoString.

EQUIPMENT

Table 1: Equipment not provided by NanoString.

Equipment	Source	Part Numbers
BOND RX ^m Compact, Fully Automated Advanced Stainer or BOND RX, Fully Automated Research Stainer	Leica Biosystems	Contact Leica Biosystems
BOND RX Controller, running BOND RX software version 6.0 and above	Leica Biosystems	Contact Leica Biosystems
Baking oven	Quincy Lab, Inc. (or comparable)	Various GC models
UV Light Box (optional)	VWR	Various

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MATERIALS


Table 2: Materials not provided by NanoString.

Materials	Source	Part Numbers
BOND Research Detection System (includes 6x 30 mL Open Containers)	Leica Biosystems	DS9455
BOND Titration Kit (includes 50 inserts)	Leica Biosystems	OPT9049
BOND Universal Covertiles	Leica Biosystems	S21.2001
BOND Open Containers 30 mL (if additional needed)	Leica Biosystems	OP309700
BOND Titration Container Inserts (if additional needed)	Leica Biosystems	OPT9719
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)	72.785.005
Superfrost Plus microscopic slides	Fisher Scientific (or comparable)	12-550-15
Tissue Tek Slide Stain Dish (plastic Coplin Jars) or equivalent	Sakura (or comparable)	25608-904 or 25608-906
Humidity Chamber	Simport	M920-1
Hydrophobic Barrier Pen	Vector Labs (or comparable)	H-4000
Razor Blades	Various	Various
Cover slips (optional)	Various	Various

REAGENTS

The following reagents are recommended for the GeoMx DSP Leica Biosystems Protein workflow but are not supplied by NanoString. BOND reagents are produced by Leica Biosystems; refer to Leica Biosystems product literature for safety information on these reagents.

Table 3: Reagents not provided by NanoString.

Reagent	Source/Part Number	Storage
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
DEPC-treated water	ThermoFisher, AM9922 (or comparable) Various	RT
10X tris buffered saline (TBS)	Cell Signaling Technologies, Cat # 12498S	RT
10X TBS with tween 20 (TBS-T)	Cell Signaling Technologies, Cat # 9997S	RT
4 or 16% paraformaldehyde (PFA) Note: Use <i>only</i> for post-fixation step 	Thermo Scientific, 4% concentration, Cat # FB002, R37814 16% stock (must be diluted to 4%), Cat # 28906, 28908 (or comparable)	-20°C
10X phosphate buffered saline pH 7.4 (PBS) Note: Used <i>only</i> to dilute PFA	Sigma Aldrich, SKU P5368-10PAK, P5368-5X10PAK (or comparable)	RT
Fluoromount-G mounting media (optional)	SouthernBiotech, Cat. No. 0100-01	RT

NANOSTRING REAGENTS

nCounter Protein Readout

The following equipment ([see Table 4](#)) and materials ([see Table 5](#)) are recommended for this protocol but are **not supplied by NanoString**.

Table 4: Equipment not provided by NanoString

Equipment	Manufacturer	Part Numbers
ALPS 50 plate sealer (see Materials list for compatible heat-sealing foil)	Thermo Fisher	AB-1443A
Heatblock or thermal cycler Note: Ensure this is compatible with the hybridization plate (see the Materials table).	Various, such as Bio-Rad C1000 deep-well model	Various, such as 1851197

Equipment	Manufacturer	Part Numbers
Picofuge	Various	Various
Vortex	Various	Various
Plate spinner/centrifuge (up to at least 2000 g)	Various	Various

Table 5: Materials not provided by NanoString

Materials	Manufacturer	Part Numbers
Pipettes for 0.1–1,000 μ L	Various	Various
12-channel P20 multi-channel pipetter	Various	Various
Filter Tips (RNase/DNase free)	Various	Various
Microtubes	Sarstedt	72.785.005
Permeable membrane (dry-down seal)	Sigma-Aldrich	A9224
Eppendorf 96-well twin.tec PCR Plates, semi-skirted, 250 μ l	Fisher Scientific	E951020346
Heat-sealing foil seals	Fisher Scientific	AB-0559