



Saphyr Site Preparation: User Supplied Material Checklist for SP Tissue and Tumor DNA Isolation Kit

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A

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Revision History

REVISION	NOTES
A	Initial release.

Introduction

This checklist is intended to confirm that a customer looking to get trained on the Bionano SP Tissue and Tumor workflow has all required and/or recommended user-supplied materials and equipment. The wet lab contact at the site is required to go through the checklist and order/procure any outstanding items. Upon receipt of outstanding items, user is required to check the 'Present' box in each row corresponding to the relevant sample type/protocol and return the completed checklist to the Bionano Field Application Scientist.

Please note that new customer onsite training will be scheduled only upon the completion and submission of this signed form. Please list the wet lab contact(s), as well as any other contact(s) who will oversee this process to facilitate communication.

Please complete only the sections relevant to the type(s) of starting material(s) that you expect to be trained on. Should you have questions on a specific item(s) in the list, or on which sections you should complete, please contact your Bionano Field Application Scientist or support@bionano.com to discuss. For the list of user supplied material for the DLS-G2 DNA Labeling Protocol, please refer to CG-00050 Saphyr Site Preparation: User Supplied Material Checklist for SP-G2 DNA isolation protocols and DLS-G2 DNA Labeling Protocol.

Site Details and Points of Contact

Institution name	Address	e-mail address & phone number

Point of Contact Dept.	Name	E-mail address

User Supplied Material for SP Tissue and Tumor DNA Isolation Protocol

Item	Supplier	Catalog	Item Present
Rotor-stator: TissueRuptor (version I or II)*	QIAGEN	9002755	<input type="checkbox"/>
Disposable Probes for TissueRuptor*	QIAGEN	990890	<input type="checkbox"/>
Power Strip (recommended if on/off switch absent on homogenizer)	General Lab Supplier		<input type="checkbox"/>
Ring Stand & Three Prong Clamp	VWR or Equivalent	76293-368	<input type="checkbox"/>
Dynamag-2 Magnetic Tube Rack*	Thermo Fisher	12321D	<input type="checkbox"/>
HulaMixer Sample Mixer*	Thermo Fisher	15920D	<input type="checkbox"/>
Weigh Boats	General Lab Supplier		<input type="checkbox"/>
Precision Scale	General Lab Supplier		<input type="checkbox"/>
Microcentrifuge Tubes, 1.5 ml, Nuclease Free	VWR	87003-294	<input type="checkbox"/>
Screw Cap Tubes with O-Ring, 1.5 ml	General Lab Supplier		<input type="checkbox"/>
Razor Blade	General Lab Supplier		<input type="checkbox"/>
Biosafety Cabinet (optional)	General Lab Supplier		<input type="checkbox"/>
Dry Ice (optional)	General Lab Supplier		<input type="checkbox"/>
Aluminum Block	General Lab Supplier		<input type="checkbox"/>
Metal Spatula	VWR	82027-530	<input type="checkbox"/>
Phenylmethylsulphonyl Fluoride Solution (PMSF), 100 mM	Sigma-Aldrich	93482	<input type="checkbox"/>
Ethanol, 200 Proof, Molecular Biology Grade	Sigma-Aldrich	E7023	<input type="checkbox"/>
Isopropanol (IPA), ≥ 99.5%, Molecular Biology Grade	Fisher Scientific	A461-212 (new part number 327270010)	<input type="checkbox"/>
Conical Centrifuge Tubes, 50 mL, PP	Fisher Scientific	14-432-22	<input type="checkbox"/>
Conical Centrifuge Tubes, 15 ml, PP	Fisher Scientific	05-539-12	<input type="checkbox"/>
Refrigerated Centrifuge with 1.5/2.0 ml Tube Rotor (2,000 x g spin)	General Lab Supplier		<input type="checkbox"/>
Refrigerated Centrifuge, Swinging Bucket Rotor for 15 ml Conical Tubes	General Lab Supplier		<input type="checkbox"/>
Ice Bucket and Ice	General Lab Supplier		<input type="checkbox"/>
Sterile 5- and 10-ml Disposable Pipettes (TD+)	General Lab Supplier		<input type="checkbox"/>
Mini Benchtop Microcentrifuge (2,200 x g spin)	Cole Palmer or Equivalent	EW-17701-11	<input type="checkbox"/>
Pointed Forceps	Electron Microscopy Sciences or Equivalent	78141-01	<input type="checkbox"/>
Wide-Bore Pipette Tips, Filtered, Aerosol, 200 µl	USA Scientific or Fisher Scientific (Labcon)	1011-8810, 1152-965-008-9	<input type="checkbox"/>
Extra Long 1000 µl Tips, Sterile	VWR or Equivalent	76322-154	<input type="checkbox"/>
Pipettes (10, 20, 200, and 1,000 µl) and Nuclease Free, Filtered Pipette Tips	General Lab Supplier		<input type="checkbox"/>

Item	Supplier	Catalog	Item Present
Day 2: Quantitation			
Qubit Assay Tubes*	Thermo Fisher	Q32856	<input type="checkbox"/>
Qubit 4 Fluorometer*	Thermo Fisher	Q33216 (new part number Q33238)	<input type="checkbox"/>
Qubit® BR (Broad Range) dsDNA Assay Kit*	Thermo Fisher	Q32853	<input type="checkbox"/>
Benchtop Vortexer	VWR or Equivalent	10153-838	<input type="checkbox"/>
Bath Sonicator (optional)	General Lab Supplier		<input type="checkbox"/>
Positive-Displacement Pipette MR-10 (recommended)*	Rainin or Equivalent	17008575	<input type="checkbox"/>
Pipette Tips, 10 ul, C-10 for Pos. Displ. Pipette (recommended) *	Rainin or Equivalent	17008604	<input type="checkbox"/>

*(Item in blue) We strongly encourage not substituting this equipment and getting the exact item recommended, as using these will give the most successful outcome from the workflow.

**TexQ can be replaced with any quaternary ammonium disinfectant that complies with EHS regulations in your institution

*A positive displacement pipette is a special pipette with a plunger that operates a built-in piston in special tips that go with the pipette. Such a pipette and tips are highly effective in accurately pipetting and dispensing small volumes of viscous liquids, and therefore are highly recommended to be used while aliquoting the Ultra High Molecular Weight DNA isolated using Bionano's protocols.

Note on Disposal of Harardous Waste

Buffers LBB and WB1 provided in Bionano's SP DNA Isolation kits contain guanidine hydrochloride (GuHCl). GuHCl is harmful if swallowed or inhaled and causes skin and eye irritation. DO NOT mix with bleach or acidic reagents. Liquid waste containing GuHCl should be safely decontaminated with a quaternary ammonium disinfectant before disposal in a hazardous waste stream. We recommend following local environmental, health and safety regulations for decontamination and disposal of all solutions mixed with GuHCl.

Bionano's DNA Isolation Protocols also generate biological waste. Please follow your institution's guidelines for disposal of such biological and/or infectious waste.

Acknowledgement

By signing below, I declare that the information provided is accurate, in fact and form, to the best of my knowledge.

I understand that the success of the onsite training on the Bionano workflow depends on the possession of all required user-supplied materials and equipment.

Finally, I acknowledge that I have read the note on disposal of hazardous waste.

Customer Representative name, job title (printed):

Signature:

Date:

Comments:

Bionano FAS name (printed):

Signature:

Date:

Comments:

Technical Assistance

For technical assistance, contact Bionano Genomics Technical Support.

You can retrieve documentation on Bionano products, SDS's, certificates of analysis, frequently asked questions, and other related documents from the Support website or by request through e-mail and telephone.

TYPE	CONTACT
Email	support@bionano.com
Phone	Hours of Operation: Monday through Friday, 9:00 a.m. to 5:00 p.m., PST US: +1 (858) 888-7663
Website	www.bionano.com/support
Address	Bionano Genomics, Inc. 9540 Towne Centre Drive, Suite 100 San Diego, CA 92121
