

Ligation sequencing DNA V14 - automated Tecan DreamPrep
NGS (SQK-LSK114-XL)

Version: DTD_9181_v114_revK_22Feb2023
Last update: 04/10/2023

Flow Cell Number:

DNA Samples:

Before start checklist

Materials

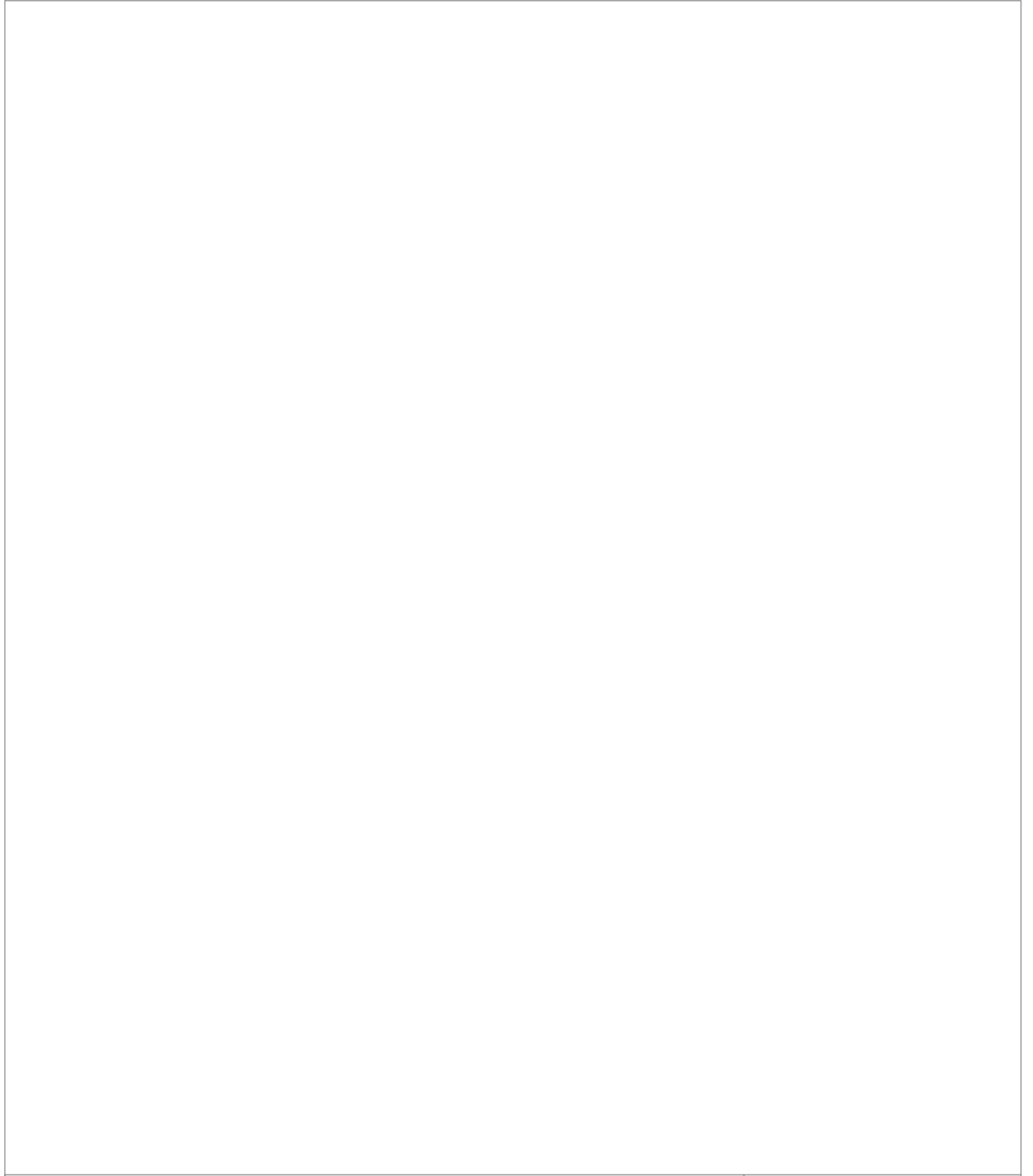
- 1 µg (or 100-200 fmol) high molecular weight genomic DNA
- OR 100+ ng high molecular weight genomic DNA if performing DNA fragmentation
- Ligation Sequencing Kit XL V14 (SQK-LSK114-XL)

Consumables

- NEBNext® Companion Module for Oxford Nanopore Technologies® Ligation Sequencing (NEB, E7180S or E7180L). Alternatively, you can use the NEBNext® products below:
- NEBNext FFPE Repair Mix (NEB, M6630)
- NEBNext Ultra II End repair/dA-tailing Module (NEB, E7546)
- NEBNext Quick Ligation Module (NEB, E6056)
- Agencourt AMPure XP Beads (Beckman Coulter™, A63881)
- Nuclease-free water (e.g. ThermoFisher, AM9937)
- Freshly prepared 80% ethanol in nuclease-free water
- Bovine Serum Albumin (BSA) (50 mg/ml) (e.g. Invitrogen™ UltraPure™ BSA 50 mg/ml, AM2616)
- Hard-Shell® 96-Well PCR Plates, low profile, thin wall, skirted, red/clear (Bio-Rad™, cat # HSP9611)
- Thermo Scientific™ Abgene™ 96 Well 1.2 ml Polypropylene Deepwell Storage Plate (Thermo Scientific, cat # AB1127)
- 1000 µl Disposable Conductive Tips - Liquid Handling Flexible Channel Arm - Filtered, Pure, ANSI/SLAS-format box (same as SBS) (Tecan , cat# 30057817)
- 200 ul Disposable Conductive Tips - Liquid Handling Flexible Channel Arm - Filtered, Pure, ANSI/SLAS-format box (same as SBS) (Tecan , cat# 30057815)
- 50 ul Disposable Conductive Tips - Liquid Handling Flexible Channel Arm - Filtered, Pure, ANSI/SLAS-format box (same as SBS) (Tecan , cat# 30057813)
- Small SBS Box to place conductive tips & refill, compatible with 10uL, 50uL, 200uL tips (Tecan , cat# 30058506)
- Big SBS Box to place conductive tips & refill, compatible with 1000uL tips (Tecan , cat# 30058507)
- 150 µl Disposable Tips - MultiChannel Arm™

Equipment

- Ice bucket with ice
- Vortex mixer
- Microplate centrifuge, e.g. Fisherbrand™ Mini Plate Spinner Centrifuge (Fisher Scientific, 11766427)
- Tecan DreamPrep NGS workstation with full configuration



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<p>Library preparation</p> <p>Prepare the NEBNext FFPE DNA Repair Mix and NEBNext Ultra II End Repair / dA-tailing Module reagents in accordance with manufacturer's instructions, and place on ice.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Thaw all reagents on ice. <input type="checkbox"/> Flick and/or invert the reagent tubes to ensure they are well mixed. Note: Do not vortex the FFPE DNA Repair Mix or Ultra II End Prep Enzyme Mix. <input type="checkbox"/> Always spin down tubes before opening for the first time each day. <input type="checkbox"/> The Ultra II End Prep Buffer and FFPE DNA Repair Buffer may have a little precipitate. Allow the mixture to come to RT and pipette the buffer up and down several times to break up the precipitate, followed by vortexing the tube for 30 seconds to solubilise any precipitate. Note: It is important the buffers are mixed well by vortexing. <input type="checkbox"/> The FFPE DNA Repair Buffer may have a yellow tinge and is fine to use if yellow. <p><input type="checkbox"/> Switch on the Tecan DreamPrep NGS robot and open the Fluent Control software on the computer. Follow the recommended specifications to initiate the DreamPrep NGS.</p>	
<p>IMPORTANT</p> <ul style="list-style-type: none"> <input type="checkbox"/> Perform the 'Daily System Care' method to prepare the instrument before the first run of the day. <ul style="list-style-type: none"> <input type="checkbox"/> Users will have access to the 'Main screen' of TouchTools™, which allows interaction with the DreamPrep NGS system. Select 'Method Starter'. <input type="checkbox"/> In the 'Method Starter' folder, select the Ligation sequencing program and click 'Ok'. <input type="checkbox"/> Click the 'start button' in the middle of the screen to start the run. <p>During the run set-up on the Tecan DreamPrep NGS, the workstation will perform automated checks and set-up for the ODT.</p> <ul style="list-style-type: none"> <input type="checkbox"/> When you see the 'Welcome to the ONT Ligation Sequencing protocol by Tecan' page, click 'Continue'. <input type="checkbox"/> Set the 'User defined variables' and click on 'Next page' to proceed. <p>Set the 'User inputs' and click on 'Next page' to proceed.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Please note that if removing the sample plate for off-deck storage, user interaction is required approximately 10 minutes after starting the run. <input type="checkbox"/> We recommend RT for the majority of users. However, 37°C can be beneficial for recovery of longer DNA strands. <input type="checkbox"/> The MinION option is valid for both the MinION and GridION device. <p><input type="checkbox"/> Select if you would like to maintain the standard LSK volumes and timers as recommended by ONT and click on 'Next page' to proceed.</p>	
<p>IMPORTANT</p> <ul style="list-style-type: none"> <input type="checkbox"/> We highly recommend using default settings developed by Oxford Nanopore Technologies. 	

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<p><input type="checkbox"/> Review the run variables and click 'Confirm':</p> <p>Follow the on-screen directions to load the 150 µl filtered tips for the Multichannel Arm 384/96 onto the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position for each box will flash to indicate where to place the labware. <input type="checkbox"/> Please load full tip boxes only, partially full boxes of filtered tips for the Multichannel Arm 384/96 are currently not supported. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed to the next box. <input type="checkbox"/> After loading all of the required labware, close the front safety shield and click 'Next Page' to proceed. <p>Follow the on-screen directions to load the 50 µl filtered tips for the Multichannel Arm 384/96 onto the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position for each box will flash to indicate where to place the labware. <input type="checkbox"/> Please load full tip boxes only, partially full boxes of filtered tips for the Multichannel Arm 384/96 are currently not supported. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed to the next box. <input type="checkbox"/> After loading all of the required labware, close the front safety shield and click 'Next Page' to proceed. <p>Follow the on-screen directions to load the 1000 µl Flexible Channel Arm filtered tips onto the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position for each box will flash to indicate where to place the labware. <input type="checkbox"/> Partially full boxes are supported for the Flexible Channel Arm filtered tips. However, please ensure the tip box contains the minimum required number of tips as described in the equipment and consumables section of this protocol. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed to the next box. <p>Follow the on-screen directions to load the 200 µl Flexible Channel Arm filtered tips onto the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position for each box will flash to indicate where to place the labware. <input type="checkbox"/> Partially full boxes are supported for the Flexible Channel Arm filtered tips. However, please ensure the tip box contains the minimum required number of tips as described in the equipment and consumables section of this protocol. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed to the next box. <p>Follow the on-screen directions to load the 50 µl Flexible Channel Arm filtered tips onto the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position for each box will flash to indicate where to place the labware. <input type="checkbox"/> Partially full boxes are supported for the Flexible Channel Arm filtered tips. However, please ensure the tip box contains the minimum required number of tips as described in the equipment and consumables section of this protocol. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed to the next box. <input type="checkbox"/> After loading all of the required labware, click 'Next Page' to proceed. <p>Follow the on-screen directions to load the metal lid for ODTC on to the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position will flash to indicate where to place the labware. <input type="checkbox"/> Click 'Approve' after the addition of the metal lid for ODTC to proceed. <p>Follow the on-screen directions to load the Waste plate on to the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position will flash to indicate where to place the labware. <input type="checkbox"/> After loading the Waste plate, click 'Next Page'. 	

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<p>Follow the on-screen directions to load the reaction plates onto the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> For the reaction plate(s) loaded in the 'Hotel': The lettered well markers (A-H) should be positioned towards the back of the worktable and the numbered well markers (1-12) should be positioned facing the right. <input type="checkbox"/> For the reaction plate(s) loaded onto the worktable: Follow standard plate orientation, with the lettered well markers (A-H) positioned to the left and the numbered well markers (1-12) positioned to towards the back of the worktable. <p>Note: We recommend all plates are labelled before placing on the worktable to ensure correct plate tracking.</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position for each plate will flash on the on-screen display to indicate where to place the labware. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed. <input type="checkbox"/> After loading all of the required labware, click 'Next Page'. <p>Follow the on-screen directions to load the Bead plate, the Elution buffer plate and Ethanol plate on to the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The required loading position will flash to indicate where to place the labware. <input type="checkbox"/> Click 'Approve' after each addition of labware to proceed. <input type="checkbox"/> After loading all of the required labware, click 'Next Page'. <p><input type="checkbox"/> Close the front safety shield of the Tecan DreamPrep NGS while you prepare the reaction master mixes off-deck.</p> <p>Prepare the End-prep (EP) master mix in a 2 ml Sarstedt tube with the following reagents according to the Tecan DreamPrep NGS user interface. Click 'OK' and 'Continue' to proceed.</p> <ul style="list-style-type: none"> <input type="checkbox"/> NEBNext FFPE DNA Repair Buffer <ul style="list-style-type: none"> - Volume per sample: 3.5 µl - Volume X8 samples: 36.4 µl - Volume X24 samples: 109.2 µl - Volume X48 samples: 201.6 µl - Volume X96 samples: 369.6 µl <input type="checkbox"/> NEBNext FFPE DNA Repair Mix <ul style="list-style-type: none"> - Volume per sample: 2 µl - Volume X8 samples: 20.8 µl - Volume X24 samples: 62.4 µl - Volume X48 samples: 115.2 µl - Volume X96 samples: 211.2 µl <input type="checkbox"/> Ultra II End-prep reaction buffer <ul style="list-style-type: none"> - Volume per sample: 3.5 µl - Volume X8 samples: 36.4 µl - Volume X24 samples: 109.2 µl - Volume X48 samples: 201.6 µl - Volume X96 samples: 369.6 µl <input type="checkbox"/> Ultra II End-prep enzyme mix <ul style="list-style-type: none"> - Volume per sample: 3 µl - Volume X8 samples: 31.2 µl - Volume X24 samples: 93.6 µl - Volume X48 samples: 172.8 µl - Volume X96 samples: 316.8 µl 	

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<p>Prepare the Adapter-ligation (AL) master mix directly into the 2 ml Sarstedt tube(s) with the following reagents according to the Tecan DreamPrep NGS user interface. Click 'OK' and 'Continue' to proceed.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Number of tubes to prepare <ul style="list-style-type: none"> - Volume per sample: - - Volume X8 samples: 1 - Volume X24 samples: 1 - Volume X48 samples: 2 - Volume X96 samples: 4 <input type="checkbox"/> Ligation Buffer (LNB) <ul style="list-style-type: none"> - Volume per sample: 25 µl - Volume X8 samples: 260 µl - Volume X24 samples: 780 µl - Volume X48 samples: 660 µl - Volume X96 samples: 660 µl <input type="checkbox"/> NEBNext Quick T4 DNA Ligase <ul style="list-style-type: none"> - Volume per sample: 10 µl - Volume X8 samples: 104 µl - Volume X24 samples: 312 µl - Volume X48 samples: 264 µl - Volume X96 samples: 264 µl <input type="checkbox"/> Ligation Adapter (LA) <ul style="list-style-type: none"> - Volume per sample: 5 µl - Volume X8 samples: 52 µl - Volume X24 samples: 156 µl - Volume X48 samples: 132 µl - Volume X96 samples: 132 µl <p>Load the DNA repair and end-prep master mix and Adapter ligation master mix prepared above in the 2 ml Sarstedt tubes into the required positions in the POGO tube holder by following the on-screen instructions.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ensure the master mixes are thoroughly mixed before loading. <input type="checkbox"/> You will need to select each loading position using the Tecan's TouchTools touchscreen display. <input type="checkbox"/> Follow the instructions on the display for each reagent, ensuring the fill volume for each tube is correct. <input type="checkbox"/> Ensure the reagents have been added to all of the required positions before proceeding. <input type="checkbox"/> Click 'Confirm' to proceed. 	
<p>IMPORTANT</p> <ul style="list-style-type: none"> <input type="checkbox"/> Please ensure the liquid is evenly distributed across the troughs. 	
<p>IMPORTANT</p> <p>Depending on the wash buffer (LFB or SFB) used, the clean-up step after adapter ligation is designed to either enrich for DNA fragments of >3 kb, or purify all fragments equally.</p> <ul style="list-style-type: none"> <input type="checkbox"/> To enrich for DNA fragments of 3 kb or longer, use Long Fragment Buffer (LFB) <input type="checkbox"/> To retain DNA fragments of all sizes, use Short Fragment Buffer (SFB) 	

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<p>Load the troughs with their relevant reagents into the worktable by following the on-screen instructions.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ensure all the reagents have been thoroughly mixed by vortexing before dispensing into the troughs. <input type="checkbox"/> The required loading position will flash to indicate where to insert the trough. <input type="checkbox"/> Click 'Approve' after each addition to proceed. <input type="checkbox"/> After loading all of the troughs, click 'Next Page'. <input type="checkbox"/> Site 2: Trough with fresh 80% ethanol. <input type="checkbox"/> Site 3: Trough with AMPure XP Beads. <input type="checkbox"/> Site 5: Trough with Long Fragment Buffer (LFB) or Short Fragment Buffer (SFB), depending on use. <input type="checkbox"/> Site 6: Trough with Elution Buffer (EB). <input type="checkbox"/> Site 7: Trough with Nuclease-free water. <p><input type="checkbox"/> Close the front safety shield of the Tecan DreamPrep NGS while you prepare the sample plate off-deck.</p> <p>Follow the on-screen directions to load the sample plate on to the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Quantify your sample input using a Qubit fluorometer (or equivalent). <input type="checkbox"/> Per sample, transfer 1 µg (or 100-200 fmol) of input DNA into a well of the input plate. <input type="checkbox"/> Adjust the volume to 60 µl with Nuclease-free water. <input type="checkbox"/> Mix thoroughly by pipetting. <input type="checkbox"/> Spin down briefly in a microfuge. <input type="checkbox"/> The required loading position will flash to indicate where to place the labware. <input type="checkbox"/> Click 'Approve' after the addition of labware to proceed. <input type="checkbox"/> After loading all of the required labware, click 'Next Page'. <p><input type="checkbox"/> Close the front safety shield of the Tecan DreamPrep NGS before starting your run and click 'Continue'.</p> <p><input type="checkbox"/> Click 'Confirm' and 'Continue' to start the automated library preparation.</p> <p><input type="checkbox"/> Remove the plate containing the eluted libraries from the Tecan DreamPrep NGS deck.</p> <p><input type="checkbox"/> Quantify 1 µl of each eluted sample from the output plate using a Qubit fluorometer plate reader off deck.</p>	
<p>Seal the plate and store on ice until ready to prepare the library/libraries and load onto the flow cell.</p>	
<ul style="list-style-type: none"> <input type="checkbox"/> Depending on your required data output, prepare your final library to 35-50 fmol for high output of simplex data, or 10-20 fmol for duplex data, in 12 µl of Elution Buffer (EB). 	
<p>Priming and loading the SpotON flow cell</p>	
<p>IMPORTANT</p> <ul style="list-style-type: none"> <input type="checkbox"/> Please note, this kit is only compatible with R10.4.1 flow cells (FLO-MIN114). 	
<ul style="list-style-type: none"> <input type="checkbox"/> Thaw the Sequencing Buffer (SB), Library Beads (LIB) or Library Solution (LIS, if using), Flow Cell Tether (FCT) and Flow Cell Flush (FCF) at RT before mixing by vortexing. Then spin down and store on ice. 	

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<p>IMPORTANT</p> <p><input type="checkbox"/> For optimal sequencing performance and improved output on MinION R10.4.1 flow cells (FLO-MIN114), we recommend adding Bovine Serum Albumin (BSA) to the flow cell priming mix at a final concentration of 0.2 mg/ml.</p> <p>Prepare the flow cell priming mix with BSA in a suitable vial for the number of flow cells to flush. Once combined, mix well by inverting the tube and pipette mix at RT.</p> <ul style="list-style-type: none"> <input type="checkbox"/> 30 µl Flow Cell Tether (FCT) <input type="checkbox"/> 1170 µl Flow Cell Flush (FCF) <input type="checkbox"/> 5 µl Bovine Serum Albumin (BSA) at 50 mg/ml <p><input type="checkbox"/> Open the MinION or GridION device lid and slide the flow cell under the clip. Press down firmly on the flow cell to ensure correct thermal and electrical contact.</p> <p><input type="checkbox"/> Slide the flow cell priming port cover clockwise to open the priming port.</p>	
<p>IMPORTANT</p> <p><input type="checkbox"/> Take care when drawing back buffer from the flow cell. Do not remove more than 20-30 µl, and make sure that the array of pores are covered by buffer at all times. Introducing air bubbles into the array can irreversibly damage pores.</p> <p>After opening the priming port, check for a small air bubble under the cover. Draw back a small volume to remove any bubbles:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Set a P1000 pipette to 200 µl <input type="checkbox"/> Insert the tip into the priming port <input type="checkbox"/> Turn the wheel until the dial shows 220-230 µl, to draw back 20-30 µl, or until you can see a small volume of buffer entering the pipette tip <p>Note: Visually check that there is continuous buffer from the priming port across the sensor array.</p> <p><input type="checkbox"/> Load 800 µl of the priming mix into the flow cell via the priming port, avoiding the introduction of air bubbles. Wait for five minutes. During this time, prepare the library for loading by following the steps below.</p> <p><input type="checkbox"/> Thoroughly mix the contents of the Library Beads (LIB) by pipetting.</p>	
<p>IMPORTANT</p> <p><input type="checkbox"/> The Library Beads (LIB) tube contains a suspension of beads. These beads settle very quickly. It is vital that they are mixed immediately before use.</p> <p>In a new 1.5 ml Eppendorf DNA LoBind tube, prepare the library for loading as follows:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 37.5 µl Sequencing Buffer (SB) <input type="checkbox"/> 25.5 µl Library Beads (LIB) mixed immediately before use, or Library Solution (LIS), if using <input type="checkbox"/> 12 µl DNA library <p>Complete the flow cell priming:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Gently lift the SpotON sample port cover to make the SpotON sample port accessible. <input type="checkbox"/> Load 200 µl of the priming mix into the flow cell priming port (not the SpotON sample port), avoiding the introduction of air bubbles. <p><input type="checkbox"/> Mix the prepared library gently by pipetting up and down just prior to loading.</p>	

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<ul style="list-style-type: none"> <input type="checkbox"/> Add 75 µl of the prepared library to the flow cell via the SpotON sample port in a dropwise fashion. Ensure each drop flows into the port before adding the next. <input type="checkbox"/> Gently replace the SpotON sample port cover, making sure the bung enters the SpotON port and close the priming port. 	
<p>IMPORTANT</p> <ul style="list-style-type: none"> <input type="checkbox"/> Install the light shield on your flow cell as soon as library has been loaded for optimal sequencing output. 	
<p>Place the light shield onto the flow cell, as follows:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Carefully place the leading edge of the light shield against the clip. Note: Do not force the light shield underneath the clip. <input type="checkbox"/> Gently lower the light shield onto the flow cell. The light shield should sit around the SpotON cover, covering the entire top section of the flow cell. 	
<p>Close the device lid and set up a sequencing run on MinKNOW.</p>	
<p>Unloading the Tecan DreamPrep NGS worktable</p>	
<p>IMPORTANT</p> <ul style="list-style-type: none"> <input type="checkbox"/> Please ensure you have removed the plate containing your eluted sample libraries and stored it appropriately before unloading the rest of the worktable. 	
<ul style="list-style-type: none"> <input type="checkbox"/> Empty the tip waste container. <input type="checkbox"/> Remove all the remaining plates from the worktable and hotel sites, and discard accordingly. <input type="checkbox"/> Remove the disposable 25 ml and 100 ml troughs from the trough mounting sites, and discard accordingly. <input type="checkbox"/> Remove the Sarstedt tubes from the POGO tube holder, and discard accordingly. <p>Clean the Bio-Rad™ Arched Auto-Sealing Lid:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Wipe the lid with 10% bleach <input type="checkbox"/> Thoroughly rinse the bleach off the lid using ≥80% ethanol or double distilled water (ddH₂O) and lint-free wipes <input type="checkbox"/> Allow the lid to air dry <p>Remove and/or restock the tip boxes on the worktable:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Remove all Flexible Channel Arm (FCA) hanging tip trays from the FCA standard tip carriers, and discard accordingly. <input type="checkbox"/> Remove all empty MultiChannel Arm (MCA) tip boxes from the worktable and discard accordingly. <input type="checkbox"/> For partially used tip boxes, consider restacking the box with the appropriate tips for the next run. <ul style="list-style-type: none"> <input type="checkbox"/> In cases where spillage has occurred during the automated library preparation, wipe the worktable surface using ≥80% ethanol. 	
<p>Conclude all open dialogues on the TouchTools screen.</p>	

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Flow cell reuse and returns	
<input type="checkbox"/> After your sequencing experiment is complete, if you would like to reuse the flow cell, please follow the Flow Cell Wash Kit protocol and store the washed flow cell at 2-8°C. <input type="checkbox"/> Alternatively, follow the returns procedure to flush out the flow cell ready to send back to Oxford Nanopore.	
IMPORTANT <input type="checkbox"/> If you encounter issues or have questions about your sequencing experiment, please refer to the Troubleshooting Guide that can be found in the online version of this protocol.	