## Flow Cell Wash Kit (EXP-WSH003)

Version: WFC\_9088\_v1\_revG\_18Sep2019 Last update: 04/07/2023



Before start checklist			
Materials	Consumables	Equipm	nent
Flow Cell Wash Kit (EXP-WSH003)		lce k	oucket with ice
		Pine	ettes and pipette tips P20, P1000
			tioo and pipotto tipo ( 20) ( 1000
INSTRUCTIONS			NOTES/OBSERVATIONS
Flushing a MinION/GridION Flow Cell			
Preparation to run the washing procedure			
☐ Place the tube of Wash Solution A on ice. Do no	ot vortex the tube.		
☐ Thaw one tube of Wash Solution B at RT.			
☐ Mix the contents of Wash Solution B thoroughly	by vortexing, spin down briefly and place on ice.		
In a clean 1.5 ml Eppendorf DNA LoBind tube, prep  20 µl Wash Solution A (A)  380 µl Wash Solution B (B)	pare the following Wash Mix:		
☐ Mix well by pipetting, and place on ice. Do not v	ortex the tube.		
Stop or pause the sequencing experiment in Mir	nKNOW, and leave the flow cell in the device.		
☐ Before removing the waste fluid, ensure that the cover are closed, as indicated in the figure below	flow cell priming port cover and SpotON sample port v.		
Remove all fluid from the waste channel through	waste port 1 using a P1000 pipette.		
IMPORTANT			
	ON sample port are closed before removing the waste e sensor array area, which would lead to a significant l		
☐ Slide the flow cell priming port cover clockwise t	o open.		
remove any bubbles:	bubble under the cover. Draw back a small volume to	)	
Set a P1000 pipette to 200 μl.			
Insert the tip into the flow cell priming port.  Turn the wheel until the dial shows 220-230 upon	ıl, or until you can see a small volume of buffer/liquid e	nterina	
the pipette tip.			
	from the flow cell priming port across the sensor array.		
IMPORTANT			
	ow cell. Do not remove more than 20-30 µl, and make all times. Introducing air bubbles into the array can	sure	

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INSTRUCTIONS	NOTES/OBSERVATIONS
Load 400 μl of the prepared Flow Cell Wash Mix into the flow cell priming port, avoiding the introduction of air.	
☐ Close the priming port and wait for 30 minutes.	
☐ Before removing the waste fluid, ensure that the flow cell priming port cover and SpotON sample port cover are closed, as indicated in the figure below.	
☐ Remove all fluid from the waste channel through waste port 1 using a P1000 pipette.	
IMPORTANT	
It is vital that the flow cell priming port and SpotON sample port are closed before removing the waste buffer to prevent air from being drawn across the sensor array area, which would lead to a significant loss of sequencing channels.	
Follow one of the two options described in the next steps of the protocol.	
To run a second library on a MinION/GridION flow cell straight away	
To run a second library straight away, follow the instructions in the "Priming and loading the flow cell" section of your library preparation protocol with the recommendations below.	
Pipette very slowly when loading priming mix into the flow cell.	
☐ Wait five minutes between priming mix flushes.	
After the five minute pause, close the priming port, ensure the SpotON port is closed and remove the waste from waste port 1. This prevents the nuclease from diffusing through the flow cell. Repeat this step after the second priming mix flush.	
IMPORTANT	
☐ When priming a flow cell after a nuclease wash with the Flow Cell Wash Kit, it is vital to wait five minutes between the priming mix flushes and to remove the waste for effective removal of the nuclease.	
To store the MinION/GridION flow cell for later use	
☐ Thaw one tube of Storage Buffer (S) at RT.	
☐ Mix contents thoroughly by pipetting and spin down briefly.	
☐ Slide the flow cell priming port cover clockwise to open.	
After opening the priming port, check for a small air bubble under the cover. Draw back a small volume to remove any bubbles:	
☐ Set a P1000 pipette to 200 µl.	
☐ Insert the tip into the flow cell priming port.	
Turn the wheel until the dial shows 220-230 μl, or until you can see a small volume of buffer/liquid entering the pipette tip.	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
☐ Slowly add 500 µl of Storage Buffer (S) through the flow cell priming port.	
☐ Close the priming port.	

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minutes.

Flow Cell Number:	DNA Samples:	

ow Cell Number:	DNA Samples:	
INSTRUCTIONS	1	NOTES/OBSERVATIONS
Remove all fluid from the waste channel through waste port 1 using a P1000 pig	pette.	
IMPORTANT  It is vital that the flow cell priming port and SpotON sample port are closed before removing the waste buffer to prevent air from being drawn across the sensor array area, which would lead to a significant loss of sequencing channels.		
☐ The flow cell can now be stored at 4-8°C.		
When you wish to rause the flow cell remove the flow cell from storage, and allow it	t to warm to RT for ~5	

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