



Aurora Pre-Run Protocol

106-0017-BA-D

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Introduction

This protocol is for removing possible contaminant DNA that may be present in reagents (agarose and buffer) prior to running Aurora Reusable Cartridges. Run this protocol prior to loading samples in cases where even minute quantities of DNA contamination are problematic for your downstream applications. After completion of this protocol, you may then load actual sample and run the protocol of your choice. Since the Aurora Pre-Run Protocol concentrates contaminant DNA molecules and allows their removal prior to loading your sample in the cartridge, it ensures that contaminant DNA is not co-purified with DNA from your sample in the subsequent Aurora protocol.

Safety guidelines

Wear gloves during all stages of the protocol. Avoid skin contact with all reagents. Appropriate precautions should be taken if hazardous samples are used with the cartridges.

Running the Aurora protocol

1. Follow the directions in the **Aurora Reusable Cartridge Handling Manual** (106-0010) to prepare the Aurora. Fill the sample chamber with 5 ml of 0.25x TBE (the same buffer used in the other buffer chambers).
2. Select and run the **106-0017-BA-D Aurora Pre-Run Protocol.SP** file.
3. When the protocol is complete, carefully peel off the tape on the extraction well and remove the buffer.
4. Rinse the extraction well with 100 µl of fresh buffer and discard.
5. Refill the extraction well with 60 µl of fresh buffer and reseal the well with a new piece of tape.
6. Remove the buffer from the sample chamber, and refill the chamber with your 5 ml input sample. Load and run the Aurora protocol most appropriate for the input sample.

Troubleshooting

Please see the Aurora User Manual for more information about troubleshooting machine faults.

Ordering and support

For support for Aurora protocols or cartridges, or to order additional cartridges, please contact support@borealgenomics.com. This protocol uses the Aurora Reusable Cartridge.

SCODA conditions

These conditions are pre-programmed in the **106-0017-BA-D Aurora Pre-Run Protocol.SP** file that accompanies this protocol guide and are intended for reference purposes. Note that electric current or power values that slightly exceed these expected values may not indicate a problem.

Cartridge

Sample volume	5 ml
Expected sample conductivity	NA

Pre-Run

SCODA field strength	70 V/cm
SCODA cycle period	4 s
Duration	1.5 hr

Expected current	30-45 mA
Expected power	9-11 W