Running the Thermo Scientific Arktik Thermal Cycler

Dr. Steven Wilhelm, Alyssa Alsante

Abstract

Please contact Dr. Steven Wilhelm (wilhelm@utk.edu) for additional information regarding this protocol.

Protocol

Creating a new protocol
Step 1.

Press NEW from the main screen

> ➕ NOTES
> **Alyssa Alsante** 27 Jun 2017
>
> This will show a DEFAULT protocol, which is a graphical representation of a typical PCR temperature cycling routine.

Creating a new protocol
Step 2.

Toggle between the different steps with the cursor keys

Creating a new protocol
Step 3.

Press ADD (F1) to add a temperature step to the left of where you want to add it

Creating a new protocol
Step 4.

Press DELETE (F2) to delete a highlighted temperature step

Creating a new protocol
Step 5.

To add advanced options (temperature increment, extend time or slow ramp rate, and temperature gradient) press OPTION (F3) and follow the instructions on the screen.

INC (F1) = add or subtract a temperature increment

EXT (F2) = add or subtract a time extension

RAMP (F3) = slows the ramp rate (input range = 0.1 - 0.4 degrees C/sec.

GRAD (F4) = sets a gradient

Creating a new protocol
Step 6.

Press BACK (F4) to exit without saving

Creating a new protocol
Step 7.

Press SAVE (F5) to save the protocol

Running a protocol
Step 8.

Highlight a folder and press OPEN (F1)

Running a protocol
Step 9.

Highlight the protocol and press OPEN again

Running a protocol
Step 10.

Press START (F1)

Running a protocol
Step 11.

Press OK (F5)

Running a protocol
Step 12.

Specify the SAMPLE (F4) or BLOCK (F5) mode

⊕ NOTES

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Sample mode is recommended for most protocols

Running a protocol
Step 13.

Running a protocol
Step 14.

Specify the vessel type by selecting UTW (F4) or COMMON (F5)

Running a protocol
Step 15.

Specify the sample volume

Running a protocol
Step 16.

Press YES (F4) to run the protocol