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Running the Thermo Scientific Arktik Thermal Cycler

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Protocol status: Working

Created: June 27, 2017

Last Modified: March 15, 2018

Protocol Integer ID: 6589

Abstract

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



Creating a new protocol

- 1 Press NEW from the main screen

Note

This will show a DEFAULT protocol, which is a graphical representation of a typical PCR temperature cycling routine.

- 2 Toggle between the different steps with the cursor keys

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

- 4 Press DELETE (F2) to delete a highlighted temperature 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.

Note

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

- 6 Press BACK (F4) to exit without saving

- 7 Press SAVE (F5) to save the protocol

Running a protocol

- 8 Highlight a folder and press OPEN (F1)



9 Highlight the protocol and press OPEN again

10 Press START (F1)

11 Press OK (F5)

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

Note

Sample mode is recommended for most protocols

13

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

15 Specify the sample volume

16 Press YES (F4) to run the protocol