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Running the Thermo Scientific Arktik Thermal Cycler

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ABSTRACT

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

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Protocol status: Working

Created: Jun 27, 2017

Last Modified: Mar 15, 2018

PROTOCOL integer ID:

6589

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
- 13
- 14 Specify the vessel type by selecting UTW (F4) or COMMON (F5)
- 15 Specify the sample volume

Note

Sample mode is recommended for most protocols

16 Press YES (F4) to run the protocol