

Creating an Absorbance Mode Protocol on the MegaQuant™ Wave

(For machines WITHOUT the Interactive capacitive touch screen 3.5" LCD, color graphic display)

NOTE: Every user should begin by learning to use the Absorbance Mode.
 Absorbance mode will read and print sample absorbance values at user selected wavelengths.

- Select **"Manage Tests"** on the main display screen.
- Select **"Create Test"** and the Test Definition window will display.

TEST DEFINITION					
Name		Exit			
Mode	Absorbance				
Tube/Flowcell		^			
Kinetic (Rate)					
Primary Filter					
Differential Filter		v			
<table border="1" style="width: 100%;"> <tr> <td>Print</td> <td>Save</td> <td>»</td> </tr> </table>			Print	Save	»
Print	Save	»			

Figure 1. Test Definition page

- Select the **"Name"** field cell and input a name for the new test protocol.
- Select the **"Mode"** field cell to display the list of available modes in the "Select Mode" screen.

SELECT MODE	
Absorbance	Exit
Factor	
Single Standard	^
Point to Point	v
Regression	
Cubic Spline	Select

Figure 2. Select Mode screen

- Use the arrow keys to scroll through the list of available modes.
- Select the “Absorbance” mode cell and then press the “Select” button.
- Select the “**Tube/Flowcell**” field cell, then select either “Tube” for assays that will use tubes or select “Flowcell”, then press the “Select” button.

Note: All Megazyme assays will use tubes.

- Select the “**Kinetic (Rate)**” cell, select “No” and then press “Select” button.
- Select the “**Primary Filter**” cell.
- Use the arrow keys to scroll through the list of available wavelengths.
- Select the required primary filter and then press the “Select” button.

Note: The primary filter must correspond to the wavelength of the assay being performed.

- Select the “**Differential Filter**” cell.
- Use the arrow keys to scroll through the list of available wavelengths.
- Select the required filter if any and then press the “Select” button.

Note: The differential filter is usually greater than 100 nm above or below the primary filter.

SELECT FILTERS		SELECT FILTERS	
340	Cancel	None	Cancel
405		340	
505	^	405	^
545	v	505	v
580		545	
630	Select	580	Select
		630	

Primary Filter

Differential Filter

- When finished Select “**Save**” to save the protocol.

Note: Results for Megazyme Assay Kits that have been performed using the Absorbance Mode on the MegaQuant™ Wave can be analysed using the MegaCalc™ application spreadsheets.

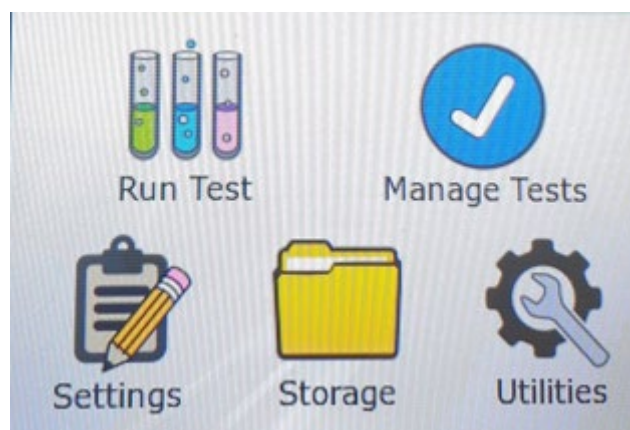
MegaCalc™ application spreadsheets can be downloaded from the specific Megazyme Assay Kit product page on the Megazyme website (www.megazyme.com)

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NOTE: Every user should begin by learning to use the Absorbance Mode. Absorbance mode will read and print sample absorbance values at user selected wavelengths.

- Select "**Manage Tests**" on the main display screen.



- Select "**Create Test**" and the Test Definition window will display.




Figure 1. Test Definition page

- Select the "**Name**" field cell and input a name for the new test protocol.

Test Definition

Name

Mode

Tube/Flowcell 

Primary Filter

Differential Filter

Print Save Run Exit

New test name X

q w e r t y u i o p

a s d f g h j k l

↑ z x c v b n m ← x

123 Enter Cancel

- Ensure that the **“Mode”** field cell is set to **“Absorbance”**.
- Ensure that the **“Tube/Flowcell”** field cell is set to “Tube” for assays that will use tubes or select “Flowcell”, then press the “Select” button.
Note: All Megazyme assays will use tubes.
- Select the **“Primary Filter”** cell then select the required wavelength.
- **Note:** The primary filter must correspond to the wavelength of the assay being performed.

Test Definition		
Name	New	340
Mode	Abso	630
Tube/Flowcell		580
		545
Primary Filter		405
Differential Filter		630

Print Save Run Exit

- Select the “**Differential Filter**” cell and select the required wavelength or “none”
Note: The differential filter is usually greater than 100 nm above or below the primary filter.

Test Definition		
Name	New test name	
Mode	Abso	None
Tube/Flowcell		630
		580
Primary Filter		545
Differential Filter		630

Print Save Run Exit

- When finished Select “**Save**” to save the protocol.
Note: Results for Megazyme Assay Kits that have been performed using the Absorbance Mode on the MegaQuant™ Wave can be analysed using the MegaCalc™ application spreadsheets.
MegaCalc™ application spreadsheets can be downloaded from the specific Megazyme Assay Kit product page on the Megazyme website (www.megazyme.com)