

## 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	

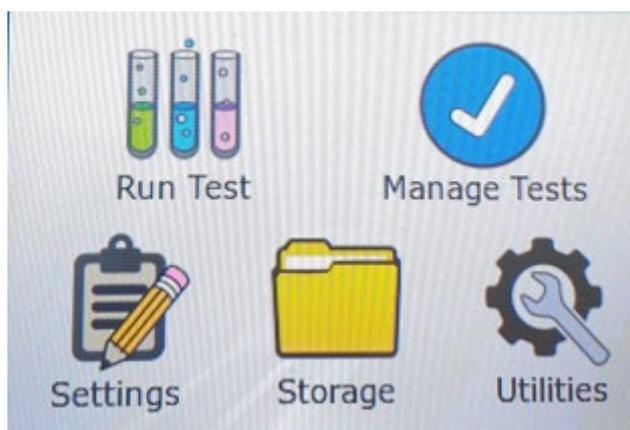
**Primary Filter**
**Differential Filter**

- 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](http://www.megazyme.com))*

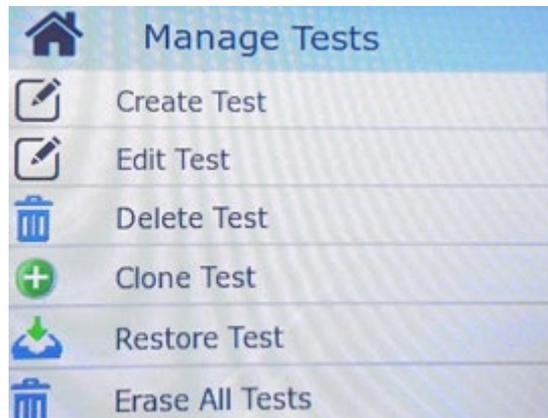
## Creating an Absorbance Mode Protocol on the MegaQuant™ Wave (For machines WITH the Interactive capacitive touch screen 3.5" LCD, color graphic display)

**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.



**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

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](http://www.megazyme.com))