

How to Enable Automatic Detection for Unplaced or Empty Adapters (No Strip)?

ERTV or ST5 UI

Explanation



During the initial testing phase of a new variety of rapid test reagents, a large number of analytical tests are often required.

However, human errors such as unplaced adapters or empty adapters (no strip) are common occurrences during the testing process. Such errors can lead to inaccurate analysis results.

The automatic detection function can alert testing personnel to correctly place adapters or test strips, thus avoiding issues. Methods of Automatic Detection



Check Cassette Sensor → ST5 UI

2. Background Parameter Settings →"Modify Lot" in ERTV

Methods of Automatic Detection



Check Cassette Sensor → ST5 UI

Background Parameter Settings →"Modify Lot" in ERTV

Enable Check Cassette Sensor





Back

"Check Cassette Sensor" Error Notification



 When analysis is performed without inserting the adapter, the following message will

appear:

2024/05/2	20 1	6:42:56	
101_COVID_SA_1C1T_N20231024			
Sample Info SN: Delay Analysis Analysis			
Please	insert.		
the cassette target			
	ок		
1/1	Real Time Anal	ysis :	
Result :	A		
C:	17		
Т:	22		
Databas	e Print	Setting	

Methods of Automatic Detection



Check Cassette Sensor → ST5 UI

2. Background Parameter Settings →"Modify Lot" in ERTV

The Measurement Position of the 'Background' Parameter



 Located approximately at the center of the two regions set by the ROI of C and T in the Profile settings, as indicated by the yellow box in the diagram below.



The Measurement Tool for Background (The Situation of Having a Strip)



 You can use the Profile Wizard to draw a region with your mouse, and measure the actual value of the background, as shown in the following video (link below):



https://drive.google.com/fi le/d/1BYX68qCsJdqmO0H mPr2uouXHS3KwTtlu/view ?usp=sharing

When the presence of the membrane on the sample is detected, the measured value is very high. The Measurement Tool for Background (The Situation of Having a Strip)



 You can use the Profile Wizard to draw a region with your mouse, and measure the actual value of the background, as shown in the following video (link below):



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When the presence of the membrane on the sample is detected, the measured value is very high. The Measurement Tool for Background (The Situation of Not Having a Strip)



 But when adapters are not inserted or in the case of empty adapters (no strip), the value of Background is very low



Enable Background Parameter Function(ST5 UI)



Back

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Enable Background Parameter Function(RTV & ERTV)



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Background Parameter Setting



Modify Lot			
Product Code : AMOZ@FB60A-5000	×		
Lot No : FB60A-5000 Expiration Date 2025-06-01 Calendar			
Analyte: AMOZ Sample Type : Honey			
Invalid Condition C < 100 AND T <	N PRO		
Background 40 (Range:0-255) Incubation Period 1			
Dilution Statement			
Menu(Max. 6) Honey V Factor: 1.000 Loc.1 Del	Encode QR New Group Profile		
Statement Negative<0.5ppb / Clear	Modify Lot Profile Wizard		
Formula T1/C1>=1			
Result Text Negative<0.5ppb AMOZ Text 2:	Result :		
Quantitative Mapping Curve			
Rias Result Significant Digits:	C-value :		
Result Formula T1 Single -	11-Value : 💌		
Concentration 0.00 Read 0.00 Add	Open the report folder		
	Generate report		
	Remarks :		
4PL Parameters			
Working Range: Concentration 0.000000 - 0.000000	· · · · · · · · · · · · · · · · · · ·		
a 0.000000 b 0.000000 c 0.000000 d 0.000000			
	The second secon		
Save			

- You can refer to the measurements with and without the strip to set this parameter
- Formula for Measurement Value: Gray=
 - 0.299×R+0.587×G+0.114×B
 - →A common formula for converting RGB to grayscale image
- It is recommended to set it slightly higher than the measurement without the strip.
- An error message will appear if the measured value is less than the Background setting.

"Background Function" Error Notification



 When analyzing and a darker background is detected (no strip or adapters inserted), the following message will be displayed:

