



Checkit® Go labware definition for your Biomek i-Series Automated Liquid Handler

At the heart of every Biomek Automated Liquid Handler is the Biomek software, which provides users with flexibility to adapt their manual liquid handling workflows to automation with ease. One of the key features in this adaptation is the ability to choose the labware and create the definition in the Utilities pallet for future use. No need to buy expansion packs or utilize only the labware predefined. In an effort to help provide additional instruction, and in collaboration with Next Advance, we are happy to provide a step-by-step guide for creating the Next Advance Checkit® Go labware definition for your Biomek i-Series Automated Liquid Handler.

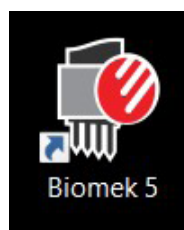


Definition details as written below are established for the following part numbers:

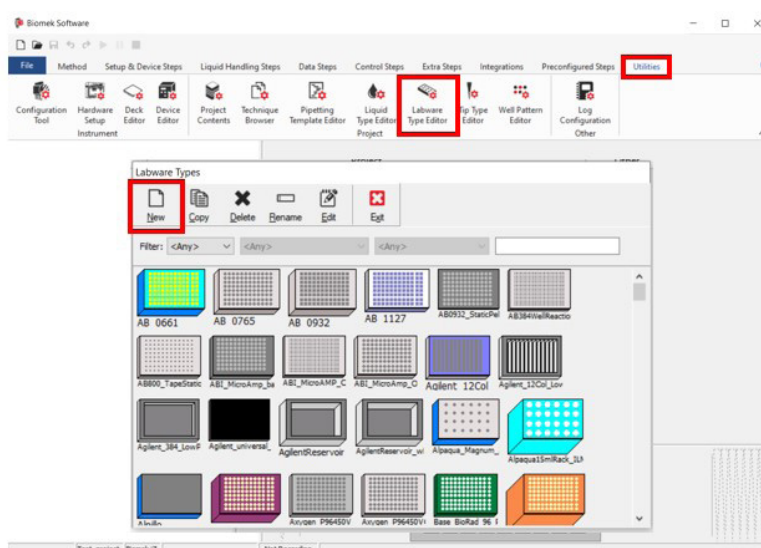
- Checkit® Go 5 µL (model CK8V5) for 2.5 to 5 µL
- Checkit® Go 10 µL (model CK8J10) for 5 to 10 µL
- Checkit® Go 20 µL (model CK8K20) for 10 to 20 µL
- Checkit® Go 50 µL (model CK8C50) for 25 to 50 µL

This information is intended for users of Biomek 5 Software who have undergone the basic instrument and software training. If there are any questions when creating the labware definition, contact your local field application scientist or Beckman Coulter Life Sciences for further instruction. The definition below is built using the [706334-05-Checkit-Go-Cartridge-interface-Drawing](#) as provided on the Next Advance website.

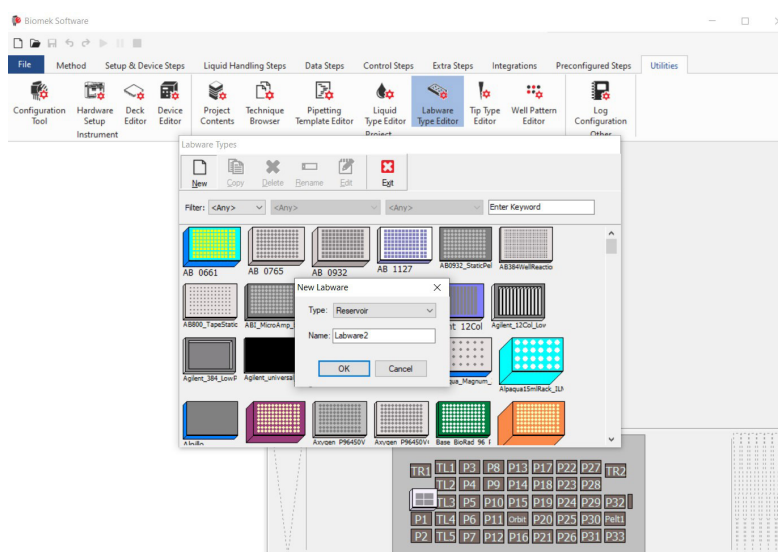
1. Open the Biomek 5 Software; the icon should appear as below.



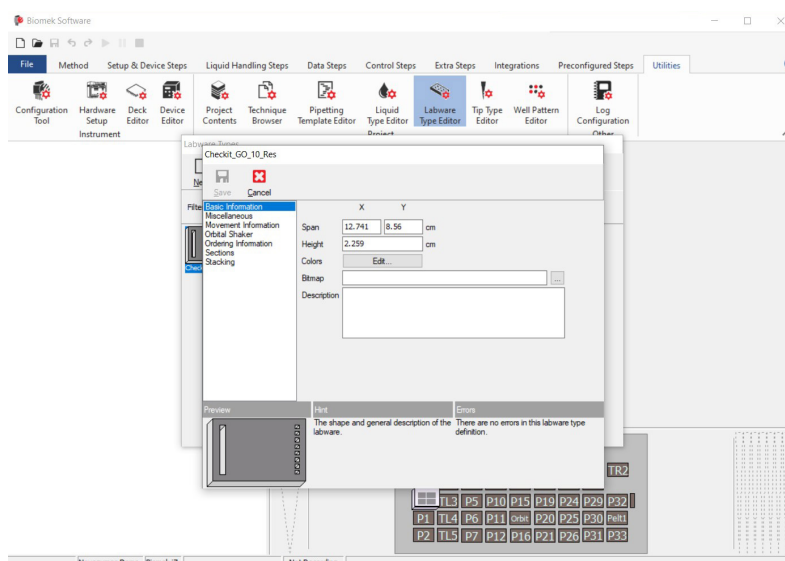
2. Select the Utilities pallet, then select the Labware Type Editor icon.
3. Upon selection a pop-up will open labeled Labware Types.
4. In that pop-up select New.



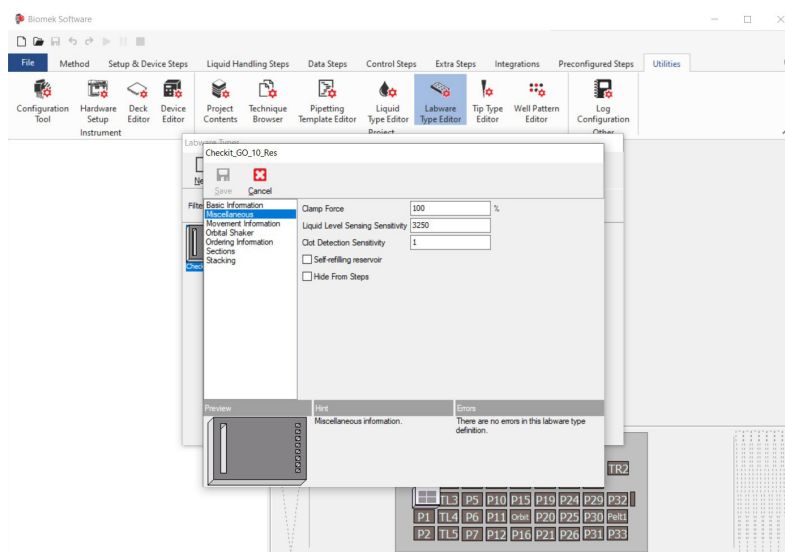
5. Select Reservoir as the Type and create a unique labware name.



6. Use the values stored below under Basic information tab:



7. Use the values stored below under Miscellaneous tab:



8. Use the values stored below under Movement Information tab:

Checkit_GO_10_Res

Save Cancel

Basic Information
Miscellaneous
Movement Information
Orbital Shaker
Ordering Information
Sections
Stacking

	X	Y	Z
Gripper Offset	0	0	-0.2 cm
Gripper Squeeze	7.897 cm		
Gripper Unsqueeze	9.706 cm		
Speed Limit	100 %		

☒ Use the gripper sensor, when available, to ensure the labware was gripped.

When moving to/from a static Peltier, use a gripper Z offset of 12.5 cm

Preview Hint Errors

Describes how the labware should be picked up and moved.

There are no errors in this labware type definition.

9. Use the values stored below under Orbital Shaker tab:

Checkit_GO_10_Res

Save Cancel

Basic Information
Miscellaneous
Movement Information
Orbital Shaker
Ordering Information
Sections
Stacking

Maximum Speed: 1800 RPM [0-1800]

Preview Hint Errors

Describes how the Orbital Shaker ALP should interact with the labware, and what the maximum speed should be.

There are no errors in this labware type definition.

10. Use the values stored below under Ordering Information tab to indicate the Manufacturer and the Part Number:

Checkit_GO_10_Res

Save Cancel

Basic Information
Miscellaneous
Movement Information
Orbital Shaker
Ordering Information
Sections
Stacking

Manufacturer: NextAdvance
Part Number:

Preview Hint Errors

Specifies the manufacturer.

There are no errors in this labware type definition.

11. Open Edit Profile: Select the first icon and complete the information as listed in the table below. Repeat for each of the nine regions of the plate.

Checkit_GO_10_Res

Save Cancel

Basic Information
Miscellaneous
Movement Information
Orbital Shaker
Ordering Information
Sections
Stacking

Delete
Edit Profile...
Edit Top View...
Sorting
☒ None
☐ Down/Right
☐ Right/Down
Section ID
Apply

Preview Hint Errors

Describes the regions where liquid may be placed in the reservoir.

There are no errors in this labware type definition.

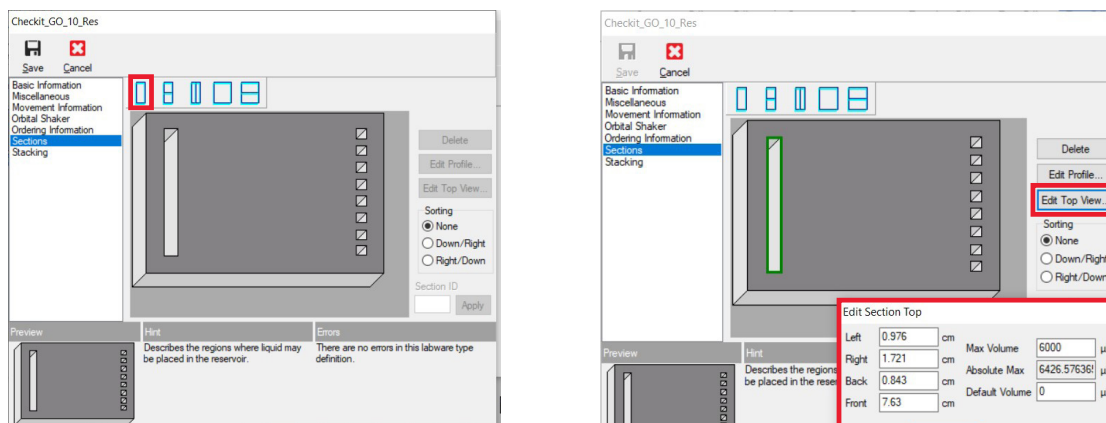
Edit Section Profile

Height: 1.271 cm
Max Volume: 6000 µL
Absolute Max: 6426.57636 µL
Default Volume: 0 µL
☐ Bottom Section
Bottom Section Height: 1.156 cm

OK Cancel

Region	Height	Max Volume	Absolute Max	Default Volume	Bottom Section	Bottom Section Height
Reservoir Trough	1.271	6000	Calculated	0	Unchecked	Greyed out
Dispense Well 1	1.13	50	Calculated	0	Checked	0.4
Dispense Well 2	1.13	50	Calculated	0	Checked	0.4
Dispense Well 3	1.13	50	Calculated	0	Checked	0.4
Dispense Well 4	1.13	50	Calculated	0	Checked	0.4
Dispense Well 5	1.13	50	Calculated	0	Checked	0.4
Dispense Well 6	1.13	50	Calculated	0	Checked	0.4
Dispense Well 7	1.13	50	Calculated	0	Checked	0.4
Dispense Well 8	1.13	50	Calculated	0	Checked	0.4

12. Open Edit Top View: Complete the information as previously stated for Edit Profile using the table below.



Region	Left	Right	Back	Front	Max Volume	Absolute Max	Default Volume
Reservoir Trough	0.976	1.721	0.843	7.63	6000	Calculated	0
Dispense Well 1	11.26	11.781	0.833	1.364	50	Calculated	0
Dispense Well 2	11.26	11.781	1.739	2.27	50	Calculated	0
Dispense Well 3	11.26	11.781	2.642	3.173	50	Calculated	0
Dispense Well 4	11.26	11.781	3.55	4.081	50	Calculated	0
Dispense Well 5	11.26	11.781	4.434	4.965	50	Calculated	0
Dispense Well 6	11.26	11.781	5.343	5.874	50	Calculated	0
Dispense Well 7	11.26	11.781	6.251	6.782	50	Calculated	0
Dispense Well 8	11.26	11.781	7.076	7.607	50	Calculated	0

13. Save the changes you have made to the new labware you created.

14. Validate the labware definition on your instrument.