

Adding Glucose 50% to ExactaMix and Abacus

ExactaMix and ExactaMix Pro Compounding Systems

To enter flow factors, you will need to be logged in as the OEM user. Before starting this process, please contact Baxter Tech Support (1-800-678-2292) for the 1-day OEM password.

NOTE: The imported product does not have a barcode printed on the container. Upon completion of these instructions, product barcode labels can be printed through the ExactaMix software.

Adding Glucose 50% to the ExactaMix Formulary

NOTE: The screen shots in the instructions below are from the ExactaMix EM2400. ExactaMix EM1200 and/or ExactaMix Pro screens will look slightly different but will contain the same fields.

1. Log into ExactaMix as an administrator.
2. If the “Compounder not ready for operation” message appears, select “No”.
3. On the pump screen select the “Menu” button.
4. On the menu screen select “Edit” then “Formulary Editor”.
5. In the formulary editor, in the top half of the screen in the Ingredients section select the “Add” button.

6. In the Add Ingredient screen enter the following values:

Field Name:	Value:
Name	Glucose 50%
Abbreviation	Glu50
Spec Gr	1.182
Warn if Manual Addition	Unchecked
Can be used for Universal Ingredient	Checked
Auto-Addition	Unchecked
Groups	<NONE>
(if EM Pro) Available	Checked

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7. Screen should look like this:

Dialog box titled "Edit Ingredient Glucose 50%".

Name: Glucose 50%

Abbr: Glu50

Spec Gr: 1.18200

Groups: <NONE> (selected), Calcium Phosphate

Warn If Manual Addition:

Can be used for Universal Ingredient:

Auto-addition:

Ingredient Abbreviation Preview: Glu50

Buttons: Save, Add/Edit Products, Cancel

8. Select the "Save" button.

9. In the upper section of the Formulary Editor screen ensure that the Glucose 50% ingredient is highlighted.

Formulary Editor

Name	Abbrev.
FreAmine HBC 6.9%	FreA69HB
FreAmine III 10%	Fre10
FreAmine III 8.5%	Fre8.5
Glucose 50%	Gluc50
Glucophos	Glucopho

Ingredients section buttons: Add, Edit, Delete, Contained In..., Show Cal. Ingredient

Products section buttons: Add, Edit, Delete, Contained In...

Buttons: Inlets..., OK

Products section

10. Select the "Add" button in the lower section of the Formulary Editor screen (Products section).

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11. In the Add Product screen enter the following values:

IMPORTANT! Ensure the Drug ID in the ExactaMix formulary matches exactly what is entered for this ingredient/product in your order entry software.

i.e., If the 5-4-2 format is being used in the order entry software, then it must also be used in ExactaMix.

Field Name:	Value:
Manufacturer	*Baxter
Ingredient Name	Auto-populated
Inlet	Dextrose Inlet (173)
Container Size	3000
Barcode ID	0100303389787013
Drug ID	0338-9787-01
Max Hang Time	24 (or facility protocol)
Container Type	Bag

12. Screen should look like this (with the exception of the Barcode ID):

Form fields and values:

- Manufacturer: *Baxter
- Ingredient Name: Glucose 50%
- Inlet: Dextrose Inlet (173)
- Container Size: 3000 mL
- Barcode ID: 0100303389787013
- Drug ID: 0338-9787-01
- Max Hang Time: 24.00 Hours
- Container Type: Bag, Syringe, Bottle, Other, Vial
- Name: *Baxter Glucose 50% 3000 Bag

13. Select the "Save" button.

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14. The Formulary Editor screen should now have the Glucose 50% ingredient and product:

Formulary Editor

Name	Abbrev.
FreAmine HBC 6.9%	FreA69HB
FreAmine III 10%	Fre10
FreAmine III 8.5%	Fre8.5
Glucose 50%	Gluc50
Glucosha	Glucosha

Ingredients

Add Edit Delete

Contained In... Show Cal. Ingredient

Product Name Drug ID

Baxter Glucose 50% 3000 Bag 0338-9787-01

Products

Add Edit Delete

Contained In...

Inlets.. OK

15. Select the “OK” button.

Adding Flow Factors for Glucose 50%

NOTE: To enter flow factors, you will need to be logged in as the OEM user. Before starting, please contact Baxter Tech Support (1-800-678-2292) for the 1-day OEM password.

Flow Factor values for the EM1200 are listed under the EM2400 values. All other fields remain the same as the EM2400. All flow factors shown are for the 173 Dextrose inlet.

1. Log in as the OEM user.
2. If the “Compounder not ready for operation” message appears, select “No”.
3. On the pump screen select the “Menu” button.
4. On the menu screen select “Edit” then “Inlet Editor”.
5. In the upper section of the OEM Inlet Editor screen, highlight the 173 inlet.

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6. In the lower section of the OEM Inlet Editor screen highlight the Dextrose Inlet.

OEM Inlet Editor

Order Number	Lowest Inlet Priming Vol.	Max Speed
173	50.00	375
174	50.00	240
175	5.00	51
176	5.00	51
751	5.00	51

OEM Inlets

Add Edit Delete

Description	Standard Priming Vol.	Max Speed
Dextrose Inlet	60.00	240
Non-Vented, Macro Inlet	60.00	375

Inlets

Add Edit Delete

Used By... Speeds/Flow Factors

Close

7. In the Inlets section towards the bottom of the screen select the “Speeds/Flow Factors” button.
8. In the Speeds for Inlet: Dextrose Inlet screen highlight speed 51 and select the “Flow Factors” button.

Speeds for Inlet: Dextrose Inlet

Speed	Minimum Volume
51	0.00
150	5.00
240	12.50

Add

Delete

Edit Speed Edit Min Volume Flow Factors

Close

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9. In the Flow Factors for Inlet Dextrose Inlet at Speed 51 screen select the “Add” button.

Ingredient	Speed	Flow Factor
Default	51	1.00
Dex 2.5% Na Cl 0.45%	51	1.02
Dex 5% Na Cl 0.2%	51	0.99
Dex 5% NaCl 0.225%	51	1.02
Dex 5% NaCl 0.45%	51	1.00
Dex 5% NaCl 0.9%	51	1.06

Flow Factors

Add Edit Delete

Close

10. Use the dropdown menu next to the Ingredient field to select the Glucose 50% ingredient.

Add Flow Factor

Inlet: Dextrose Inlet

Speed: 51

Ingredient: Amino Acids 15%
Dextrose 50%
Famotidine 10mg/mL
Famotidine 20mg
Folic Acid 5mg/mL
FreAmine HBC 6.9%
FreAmine III 10%
FreAmine III 8.5%
Glucose 50%

Flow Factor:

Save

11. For the EM2400: in the Flow Factor field enter **1.005**

11.1. For the EM1200 the value for speed 51 is 1.032

Add Flow Factor

Inlet: Dextrose Inlet

Speed: 51

Ingredient: Glucose 50%

Flow Factor: 1.005

Save Cancel

12. Select the “Save” button.

13. Select the “Close” button.

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14. In the Speeds for Inlet: Dextrose Inlet screen highlight speed 150 and select the “Flow Factors” button.

Speed	Minimum Volume
51	0.00
150	5.00
240	12.50

Buttons: Add, Delete, Edit Speed, Edit Min Volume, Flow Factors, Close

15. In the Flow Factors for Inlet Dextrose Inlet at Speed 150 screen select the “Add” button.
16. Use the dropdown menu next to the Ingredient field to select the Glucose 50% ingredient.
17. For the EM2400: in the Flow Factor field enter **0.979**
- 17.1. For the EM1200 the value for speed 150 is 0.987

Fields: Inlet (Dextrose Inlet), Speed (150), Ingredient (Glucose 50%), Flow Factor (0.979)

Buttons: Save, Cancel

18. Select the “Save” button.
19. Select the “Close” button.

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20. In the Speeds for Inlet: Dextrose Inlet screen highlight speed 240 and select the “Flow Factors” button.

Speed	Minimum Volume
51	0.00
150	5.00
240	12.50

Buttons: Add, Delete, Edit Speed, Edit Min Volume, Flow Factors, Close

21. In the Flow Factors for Inlet Dextrose Inlet at Speed 240 screen select the “Add” button.
22. Use the dropdown menu next to the Ingredient field to select the Glucose 50% ingredient
23. For the EM2400: in the Flow Factor field enter **0.982**
- 23.1. For the EM1200 the value for speed 240 is 0.988

Fields: Inlet (Dextrose Inlet), Speed (240), Ingredient (Glucose 50%), Flow Factor (0.982)

Buttons: Save, Cancel

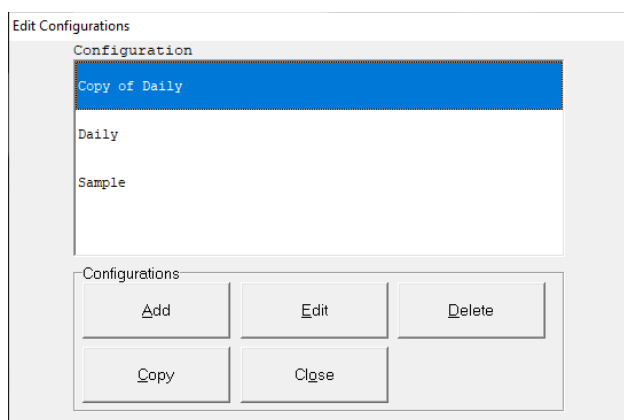
24. Select the “Save” button.
25. Select the “Close” button.
26. Select the “Close” button on the Speeds for Inlet: Dextrose Inlet screen.
27. Select the “Close” button on the OEM Inlet Editor screen.
28. Log out as OEM.

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Adding Glucose 50% to a Configuration

NOTE: For ease of returning to the Dextrose ingredient, it is recommended to make a copy of the configuration that is used on a regular basis and modify the copied configuration for use with Glucose.

1. Log in as an administrator.
2. If the “Compounder not ready for operation” message appears, select “No”.
3. On the pump screen select the “Menu” button.
4. Print a copy of the configuration report for the configuration that will be used.
 - 4.1. Select Reports>Standard>Configuration.
 - 4.2. Select the applicable configuration for the report and select OK.
 - 4.3. When the report appears, print the report by selecting the printer icon in the upper left of the screen.
 - 4.4. After the report prints select “Exit” at the top of the screen.
 - 4.5. Obtain a copy of that report for later in this process.
5. On the menu screen select “Edit” then “Configuration Editor”.
6. In the Edit Configuration screen, locate the configuration that will be used and highlight it.
7. Select the “Copy” button in the lower section of the screen. A new configuration with the same name will be added with the words “Copy Of” at the beginning of the name.
8. Highlight the newly copied configuration and select the “Edit” button.



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9. In the upper left-hand corner of the screen, change the name to reflect the new configuration. (In the example below, we added Glucose to the name).

Edit Configuration Copy of Daily

Name: Daily Glucose

Universal Ingredient: Sterile Water for In

Final Flush Volume: 30

Auto-Additions...

Edit Sequence...

OK

Cancel

10. Select the Dextrose ingredient. The edit port screen will open with the Dextrose product highlighted.
11. Scroll down the products and select the Glucose 50% product.

Edit Port 23

Port: 23
Sequence: 17

Prime Volume:
 Standard - 60.0mL (Recommended)
 Minimum - 30.00mL

Product:
Folic Acid 5mg/mL
FreAmine HBC 6.9%
FreAmine III 10%
FreAmine III 8.5%
Glucose 50%
Baxter Glucose 50% 3000 Bag

Flush With:
NO FLUSH

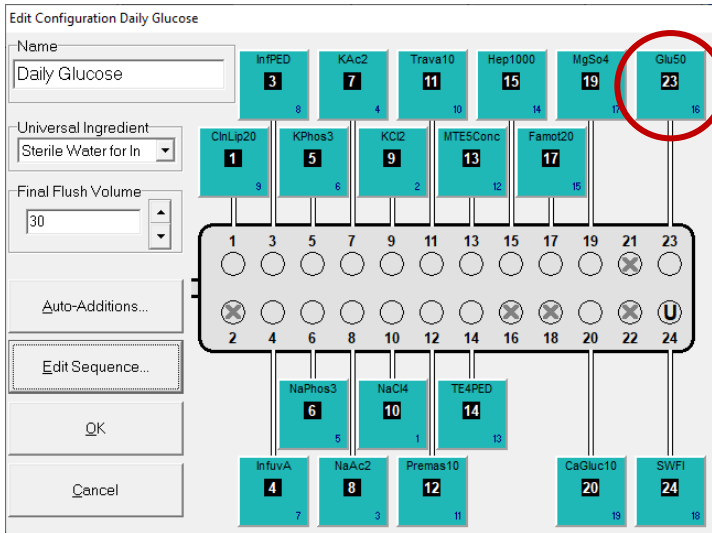
Volume: 0

OK Cancel

12. Select the "OK" button.

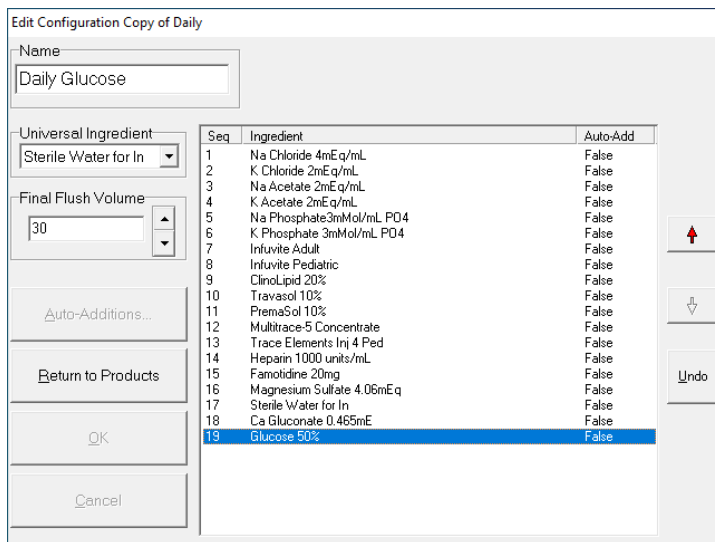
This will bring you back to the Edit Configuration screen and the Dextrose 70% will have been replaced with Glucose 50%.

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13. Select the “Edit Sequence” button on the left side of the screen.

14. Locate the Glucose ingredient and highlight it.



Adding Glucose 50% to ExactaMix and Abacus

15. Use the arrows on the right side of the screen to move the Glucose up or down into the same sequence position as the Dextrose was as listed on the Configuration Report that was printed earlier.

Seq	Ingredient	Auto-Add
1	Na Chloride 4mEq/mL	False
2	K Chloride 2mEq/mL	False
3	Na Acetate 2mEq/mL	False
4	K Acetate 2mEq/mL	False
5	Na Phosphate 3mMol/mL PO4	False
6	K Phosphate 3mMol/mL PO4	False
7	Infuville Adult	False
8	Infuville Pediatric	False
9	ClinoLipid 20%	False
10	Travasol 10%	False
11	PremSol 10%	False
12	Multitrac-5 Concentrate	False
13	Trace Elements Inj 4 Ped	False
14	Heparin 1000 units/mL	False
15	Famotidine 20mg	False
16	Glucose 50%	False
17	Magnesium Sulfate 4.06mEq	False
18	Sterile Water for In	False
19	Ca Gluconate 0.465mE	False

16. Use the Configuration Report to ensure all the other ingredients are still in the same sequence as before.
17. Select the “Return to Products” button. This will bring you back to the edit configuration screen.
18. Select the “OK” button.
19. Close the configuration editor
20. Log out as an administrator.

The ExactaMix 2400 compounder is now ready to be setup and used with the new configuration containing Glucose 50%.

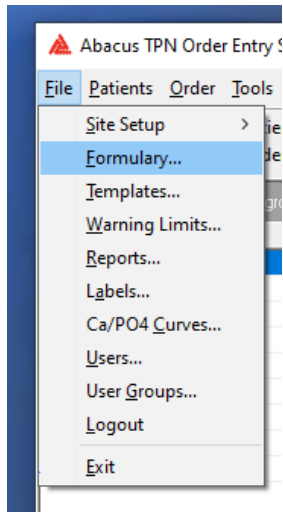
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Abacus Order Entry and Calculation Software

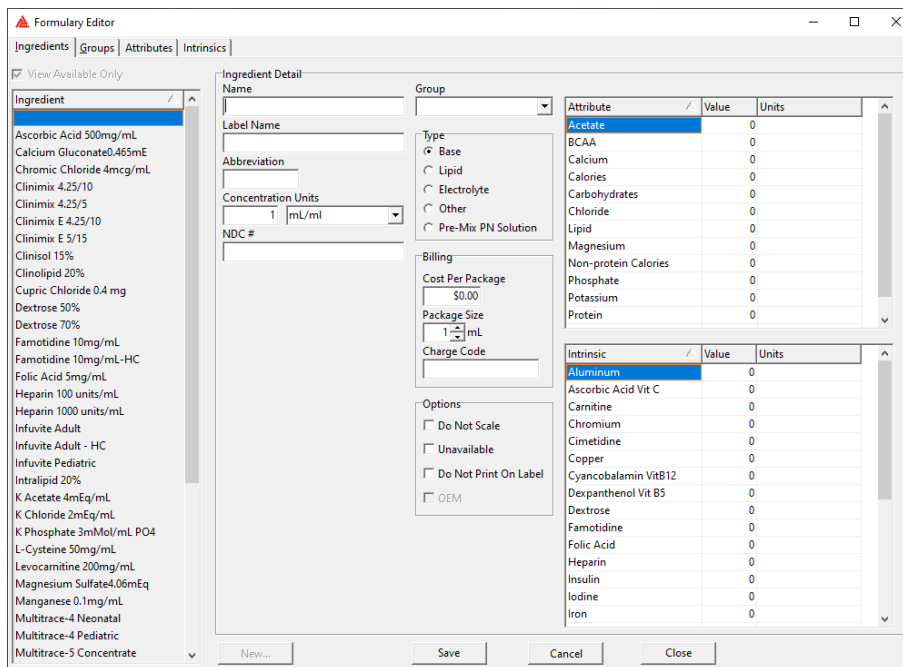
NOTE: The values in the chart in step 3 below can be utilized as applicable in any order entry system.

Adding Glucose 50% to the Abacus Formulary

1. Log into Abacus as an administrator
2. From the main screen, navigate to File>Formulary



3. At the bottom of the screen select the “New...” button. This will present the user with the ingredient detail screen with all the fields empty.



Adding Glucose 50% to ExactaMix and Abacus

4. Enter the value below in the following fields in the Ingredient Detail:

Field Name:	Value:
Name	Glucose 50%
Label Name	Glucose
Abbreviation	Gluc50
Concentration Units	0.5 gram/ml
NDC	0338-9787-01
Group	-Leave blank-
Type	Base
Billing	-Can be left blank if not being utilized-
Options	-Do not check any boxes-
In Attributes Section	
Calories	Automatically calculated
Carbohydrates	0.5 gram/ml
Non-protein Calories	Automatically calculated
All other fields	0
<i>Kcal to gram conversion for caloric values are automatically calculated by Abacus and need to be set for either Dextrose or Glucose. If the caloric values from carbohydrates are needed for Glucose, please reach out to Baxter Tech Support for assistance in changing the conversion value.</i>	
In Intrinsic Section	
Osmolarity	2.775 mOsm/ml
All other fields	0
<i>Optional: Can add an Intrinsic field for Glucose with a value of 0.5 gram/ml Please contact Baxter Tech Support for assistance adding an Intrinsic.</i>	

5. Select the "Save" button

6. When finished, the screen should look like this:

The screenshot shows the 'Formulary Editor' window with the 'Ingredient Detail' tab selected. The 'Ingredient' list on the left includes 'Glucose 50%'. The 'Ingredient Detail' section shows the following fields and values:

- Name: Glucose 50%
- Label Name: Glucose
- Abbreviation: Gluc50
- Concentration Units: 0.5 gram/ml
- NDC #: 0338-9787-01
- Group: (blank)
- Type: Base (selected)
- Billing: (blank)
- Cost Per Package: \$0.00
- Package Size: 1 mL
- Charge Code: (blank)
- Options: (None checked)

On the right, there are two tables showing attribute and intrinsic values:

Attribute	Value	Units
Acetate	0	
BCAA	0	
Calcium	0	
Calories	1.7	KCal/ml
Carbohydrates	0.5	gram/ml
Chloride	0	
Lipid	0	
Magnesium	0	
Non-protein Calories	1.7	KCal/ml
Phosphate	0	
Potassium	0	
Protein	0	

Intrinsic	Value	Units
Aluminum	0	
Ascorbic Acid Vit C	0	
Carnitine	0	
Chromium	0	
Cimetidine	0	
Copper	0	
Cyancobalamin VitB12	0	
Dexpanthenol Vit B5	0	
Dextrose	0	
Famotidine	0	
Folic Acid	0	
Heparin	0	
Insulin	0	
Iodine	0	
Iron	0	

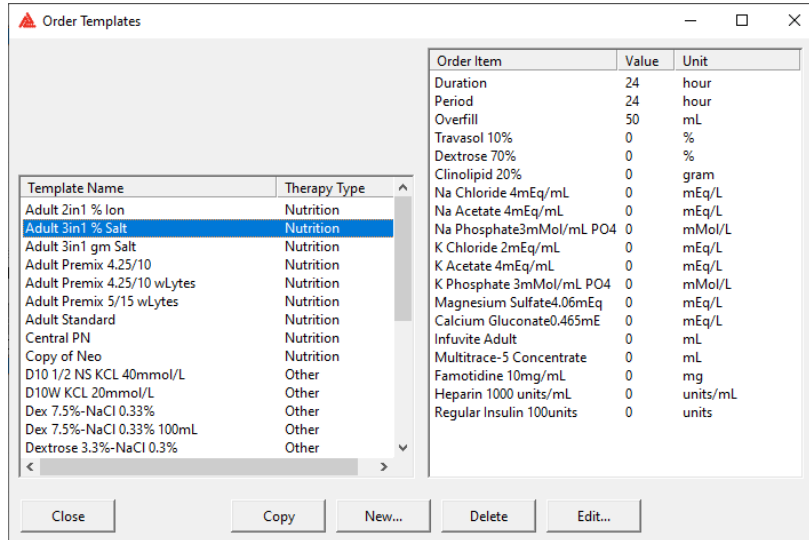
At the bottom of the window, there are buttons for 'New...', 'Save', 'Cancel', and 'Close'.

Adding Glucose 50% to ExactaMix and Abacus

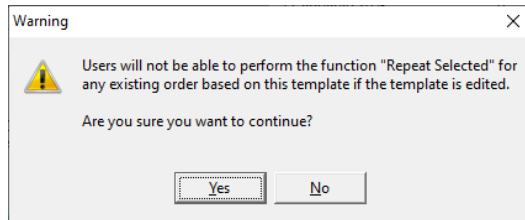
Note that the attributes for calories and non-protein calories for Glucose are incorrect. If these are needed for reporting purposes, please contact Baxter Tech Support to update the KCal to Gram conversion value. Once this is done, the Dextrose values will be inaccurate.

Adding the new Glucose ingredient to a template in Abacus

1. From the main screen, navigate to File>Templates
2. Select the template that requires modification from Dextrose to Glucose and select the “Edit” button.



3. Note that when a template that has orders attached to it is modified, the “Repeat Selected” function will not be able to be used for any orders that utilize that template the next time an order is placed. However, after the order is re-entered, the “Repeat Selected” function will work again as usual. Select “Yes” to continue.



Adding Glucose 50% to ExactaMix and Abacus

4. Locate the “Add Ingredient” button on the right side of the Edit Template screen and select it.

5. In the “Add to Order” screen highlight the Glucose ingredient and select the OK button. The Glucose ingredient will be placed at the bottom of the order area of the Edit Template screen.

6. Highlight the Glucose and use the black arrows to the right of the order area to move the Glucose directly under the Dextrose.

Adding Glucose 50% to ExactaMix and Abacus

- Update the Denominator (Denom) and then the Numerator (Numer) units of the Glucose to match the units used by Dextrose.

Locke...	Enter?	Substance	Value	Numer	Denom
<input type="checkbox"/>	<input type="checkbox"/>	Volume	0 mL	/-	
<input type="checkbox"/>	<input type="checkbox"/>	Rate	0 mL	/hour	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Duration	24 hour	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Period	24 hour	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Overfill	50 mL	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Travasol 10%	0 %	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dextrose 70%	0 %	/-	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Glucose 50%	0 %	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Clinolipid 20%	0 gram	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Na Chloride 4mEq/mL	0 mEq	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Na Acetate 4mEq/mL	0 mEq	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Na Phosphate 3mMol/mL f	0 mMol	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	K Chloride 2mEq/mL	0 mEq	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	K Acetate 4mEq/mL	0 mEq	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	K Phosphate 3mMol/mL P	0 mMol	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Magnesium Sulfate 4.06mE	0 mEq	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Calcium Gluconate 0.465m	0 mEq	/L	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Infuvite Adult	0 mL	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Multitrace-5 Concentrate	0 mL	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Famotidine 10mg/mL	0 mg	/-	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Heparin 1000 units/mL	0 units	/mL	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Regular Insulin 100units	0 units	/-	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Acetate	0 mEq	/-	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Calcium	0 mEq	/-	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chloride	0 mEq	/-	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Magnesium	0 mEq	/-	

- If applicable, modify the Glucose value to match the Dextrose value in the value column.
- Highlight the Dextrose in the substance column and select the “Delete Ingredient” button on the right side of the screen.
- At the confirm message select the “OK” button.
- Select the “Done” button.
- Repeat steps 2-10 for each template that requires modification.
- When all applicable templates have been modified, select the “Close” button to leave the Order Templates screen.