



ORCHESTRA

Planning Production Practice Lab | Spirits



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Terms and Definitions

BoM (Bill of Materials)

A Bill of Material is a complete, formally structured list of the materials/parts or components that make up a product. The list is comprised of the material number (code) of each component, together with the quantity and unit of measure.

BOMs are used as the baseline from which production is planned. A BoM is also known as a recipe.

Task

Review recipes for Mash, Fermented Mash, Distilled, Barrel Aged, Blended, Bottled Proofed and Finished. Learn to add/remove ingredients and adjust quantities.

Mash Recipe (Consumes raw materials)

1. Login to your Orchestrated Training Database
2. Open up your Bill of Materials function (**Production>Bill of Materials**)
3. Find 'Mash – American Whiskey' (search in the Product No. cell for items beginning with 'M')
4. Click **<Choose>** to populate the BoM
5. Remove 'RY2001 MicroEssentials Complete' (highlight the row > right click > Delete Row)
6. Add 'RY2003 Novozyme Termamyl SC' (Click in next available No. column cell > Find RY20003 and add it)
7. Enter a Quantity of 25 mL for RY2003
8. Click **<Update>** on Bill of Materials to save changes
9. Switch to 'Find' mode (Ctrl+F or use the blue binoculars icon in the Toolbar)

Fermented Mash Recipe (Consumes mash)

1. Find the 'Fermented – American Whiskey' BoM (search in the Product No. cell for items beginning with 'F')
2. Click **<Choose>** to populate the BoM
3. Note that the BoM is built so that 1 Gal of Fermented – American Whiskey (Quantity cell on top) consumes 1 Gal of Mash – American Whiskey (Quantity column in table)
4. Fill out the Warehouse code that these items reside in
 - a. Mash – American Whiskey _____
 - b. Fermented – American Whiskey _____
5. Click **<Update>** on Bill of Materials to save changes
6. Switch to 'Find' mode



Barrel Aged Recipe (Consumes Distillate)

1. Find the 'Barrel Aged – American Whiskey' BoM (search in the Product No. cell for items beginning with 'BA')
2. Click **<Choose>** to populate the BoM
3. Fill out the Warehouse code that these items reside in
 - a. Distilled – American Whiskey _____
 - b. Barrel Aged – American Whiskey _____
4. Switch to 'Find' mode

Blended Recipe (Consumes Barrel Aged)

1. Find the 'Blended – American Whiskey' BoM (search in the Product No. cell for items beginning with 'BA')
2. Click **<Choose>** to populate the BoM
3. Fill out the Warehouse code that these items reside in
 - a. Barrel Aged – American Whiskey _____
 - b. Blended – American Whiskey _____
4. Switch to 'Find' mode

Bottle Proof Recipe (Consumes Blended + H2O)

1. Find the 'Bottle Proof – American Whiskey' BoM (search in the Product No. cell for items beginning with 'BP')
2. Click **<Choose>** to populate the BoM
3. Adjust the Quantity of Blended – American Whiskey to .409
4. Add 'RX2002 – Purified Water' (Click in the next available No. column cell > Find RX2002 and add it)
5. Enter a Quantity of .591 Purified Water used in combination with BL1001 – Blended – American Whiskey to make 1 Gal of Bottle Proof – American Whiskey
6. Click **<Update>** on Bill of Materials to save changes
7. Fill out the Warehouse code that these items reside in
 - a. Blended – American Whiskey _____
 - b. Purified Water – American Whiskey _____
 - c. Bottle Proof – American Whiskey _____
8. Switch to 'Find' mode



Finished Good Recipe (Consumes Bottle Proof + Packaging Supplies)

1. Find the 'American Whiskey – Case 12 x 750 ml Bottles' BoM (search in the Product No. cell for items beginning with code '1001')
2. Click **<Choose>** to populate the BoM
3. Add 'PG2006 Misc Wax Red' (Click in the next available No. column cell > Find item and add it)
4. Enter a Quantity of 12 each for PG2002
5. Click **<Update>** on Bill of Materials to save changes