

**QUARTZY**

# **Quartzy-Benchling Integration**

## User Guide

[Overview](#)

[Base use case](#)

[Step-by-step instructions with examples](#)

[Automatically adding a Quartzly inventory item to Benchling's registry](#)

[Creating a request for an item in Quartzly from Benchling](#)

[FAQs](#)

[Upcoming improvements](#)

## Overview

With the integration between Quartzly and Benchling, a scientist in a Biotech company would be able to streamline their day-to-day operations significantly as well as reduce manual steps and human errors involved in managing lab inventory information and experiments.

## Base use case

The base use case involves the following steps

- A lab scientist or a lab manager orders an item in Quartzly and adds that item to Quartzly's inventory
- The inventory item record gets automatically synchronized from Quartzly's inventory to Benchling's registry
- The lab scientist can now specify this item in a notebook entry in Benchling
- When running low on the item, the scientist can create a request directly into Quartzly with one single click from Benchling's registry

# Step-by-step instructions with examples

## Automatically adding a Quartzzy inventory item to Benchling's registry

- Add a new item to Quartzzy's inventory

The screenshot displays the Quartzzy inventory management interface. On the left is a sidebar with an 'Add Item' button and a search bar. The main area shows a table of inventory items. The item 'Carbenicillin disodium salt' is highlighted, and a detailed view is shown on the right. This view includes fields for Vendor (QUARTZY Chem-Impex), Catalog # (00049), Amount In Stock (1 unit), Unit Price (17.69), and Unit Size (1 g). It also features a 'Request' button and a 'Location' dropdown menu set to 'Main Stockroom'.

| ITEM NAME   | VENDOR   | AMOUNT   | LOCATION       | TYPE           |
|---|--|----------|----------------|----------------|
| <input type="checkbox"/> 25 mL Polystyrene Serological Pipets, Sterile, Bulk Bag, Color Coded Red | Fisher Scientific<br>229245                    | 14 units |                | General Supply |
| <input type="checkbox"/> <u>Carbenicillin disodium salt</u>                                       | Chem-Impex<br>00049<br><b>QUARTZY</b>          | 1 unit   | Main Stockroom | General Supply |
| <input type="checkbox"/> Corning® Gentest™ Human MRP2 Vesicles, 0.5mL                             | Corning<br>453450                              | 1 unit   | Main Stockroom | General Supply |
| <input type="checkbox"/> <u>HPCE Conditioning Solution, NaOH 0.1N 100ml</u>                       | MicroSolv Technology<br>02001-NAOH             | 1 unit   | Main Stockroom | General Supply |
| <input type="checkbox"/> <u>Custom Polyclonal Antibody Production, Rabbit</u>                     | United States Biological<br>CS010-010-1 Rabbit | 1 unit   |                | General Supply |
| <input type="checkbox"/> <u>Custom Polyclonal Antibody Production, Goat</u>                       | United States Biological<br>CS010-012-per Goat | 1 unit   |                | General Supply |
| <input type="checkbox"/> <u>Carbenicillin disodium salt</u>                                       | Chem-Impex<br>00049<br><b>QUARTZY</b>          | 1 unit   | Main Stockroom | General Supply |

**Carbenicillin disodium salt** (Serial #A00020)  
Owned By Andrew Warren-Love

**Item**  
Vendor: **QUARTZY** Chem-Impex  
Catalog #: 00049  
Amount In Stock: 1 unit  
Unit Price: 17.69  
Unit Size: 1 g  
URL: https://www.chemimpex.com/product/pro...  
[Upload File](#)

**Location** Manage  
Location: Main Stockroom  
Sub-location:

**Type** Manage

Ask a question

- The inventory item record gets automatically synchronized from Quartzly's inventory to Benchling's registry

The screenshot displays the Benchling interface for a registry item. The left sidebar shows a list of items, with the selected item being 'Carbenicillin disodium salt:Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74522f0f0b'. The central panel shows the item's metadata, including its name, authors, project location, registry IDs, and a table of field-value pairs. The right panel is currently blank, showing a text input area.

**Item Name:** Carbenicillin disodium salt

| FIELD               | VALUE   |
|---------------------|---|
| Vendor              | Chem-Impex  |
| Item Name           | Carbenicillin disodium salt   |
| Quartzly ID         | a985c4f3-67a6-4d7d-ab5c-5c74522f0f0b  |
| Quartzly Product ID | e4ab251b-bd6d-4314-80f7-593323a88d97  |
| Catalog #           | 00049   |
| Price (USD)         | 17.69   |
| Type                | General Supply  |
| Quartzly URL        | <a href="https://app.quartzly.com/groups/252085/inventory/50079581">https://app.quartzly.com/groups/252085/inventory/50079581</a> |
| Quartzly Lab ID     | 31fb1625-dba1-4936-831c-1c7edd2ed273  |
| Unit Size           | 1 g   |
| Quantity            | 1   |

- The lab scientist can now specify this item in a notebook entry in Benchling

The screenshot displays a web application interface for "MyLab - Live Demo Use Cases". The browser address bar shows the URL "MyLab - Live Demo Use Cases" and a document title "Carbenicillin disodium salt:Chem-I...". The interface includes a top navigation bar with "REVIEW", "NOTES", and "METADATA" tabs, and a "Share" button. Below this is a rich text editor toolbar with options like "Insert", "H", "B", "I", "U", "S", "A", "x", "x", and "More". The main content area features a heading "MyLab - Live Demo Use Cases" with a status indicator "EXP22000006" and a "In progress" button. The date "THURSDAY, 2/17/2022" is displayed. A section titled "Materials List" contains a list of items with checkboxes: "25ml Pipet, Bulk Packed in Bags, Sterile-537027ac-59b2-4155-a34c-4f6af8ae5296", "Sodium Hydroxide, ACS Grade, 500 Grams-34a3c216-417f-407b-9764-d1cec4e2e475", "Urea hydrogen peroxide,97%:Sigma-Aldrich-289132-5G", "Butane,99%-54f9de49-8ed7-48d0-956f-0cd50efd2b88", "Sodium Hydroxide, ACS Grade, 500 Grams-faa99a29-c582-4175-b1c2-e9c972f1370d", and "Carbenicillin disodium salt:Chem-Impex:00049j49910128" (which is selected). Below the list is a section titled "Look up relevant context for protocols and procedures" and a search bar labeled "Lookup Quartzzy Item 1 +". The search bar contains a table with columns for "Quartzzy Item\*", "Vendor", "Catalog #", and "Type".

## Creating a request for an item in Quartzzy from Benchling

- When running low on the item, the scientist can create a request from Benchling directly into Quartzzy with one single click from Benchling's registry
  - Select the item in the Benchling registry and click the "Add Request in Quartzzy" button under the "Create Workflow tasks" menu

Registries / Quartzly

Search [ ] Type: Entity Filters

1-25 of 58 items

1 row selected

| ID        | Name   | Inventory                                   | Modified  | Vendor            | Item Name        |
|-----------|--|---|-----------|-------------------|------------------|
| QRTZY1008 | Donkey serum, Sigma-Aldrich D9663-10ML-48073531                                      | Quartzly Container : 24 @ varied quantities | 5/18/2022 | Sigma-Aldrich     | Donkey serum,    |
| QRTZY1057 | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74           | No inventory available                      | 5/10/2022 | Chem-Impex        | Carbenicillin di |
| QRTZY1056 | Carbenicillin disodium salt::Chem-Impex:000491a9910128                               | No inventory available                      | 5/9/2022  | Chem-Impex        | Carbenicillin di |
| QRTZY1055 | Stripette™ 10 mL Polystyrene Serological Pipets, Sterile, Individually Paper/Plastic | No inventory available                      | 5/9/2022  | Thomas Scientific | Stripette™ 10 m  |
| QRTZY1054 | Sharp Precision Barrier Tips, For P-200, 200µl::Thomas Scientific:4120W70/4804       | No inventory available                      | 5/9/2022  | Thomas Scientific | Sharp Precisor   |

- Enter the relevant fields in the modal to configure the request (Assignee, Date Required, Quantity)

Registries / Quartzly

Search [ ] 1-25 of 58 items

**Create task group: Add Request in Quartzly**

Folder: Materials

Watchers: Ankur Datta X Set watchers

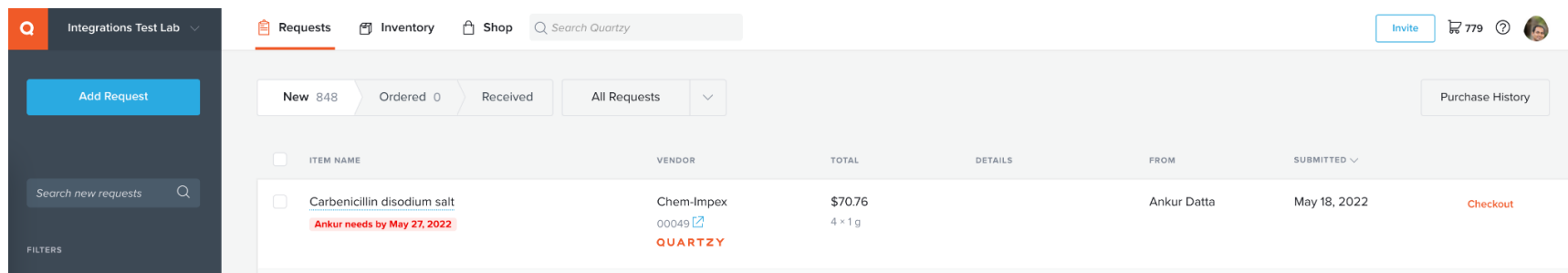
Tasks: Add Request in Quartzly +

| # | Assignee    | Quartzly Item*   | Date Required | # Quantity |
|---|-------------|--|---------------|------------|
| 1 | Ankur Datta | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c745221010b | 5/27/2022     | 4          |

Create

| ID               | Name   | Inventory                                   | Modified  | Vendor            | Item Name        |
|------------------|--|---|-----------|-------------------|------------------|
| QRTZY1008        | Donkey serum, Sigma-Aldrich D9663-10ML-48073531                                      | Quartzly Container : 24 @ varied quantities | 5/18/2022 | Sigma-Aldrich     | Donkey serum,    |
| QRTZY1057        | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74           | No inventory available                      | 5/10/2022 | Chem-Impex        | Carbenicillin di |
| QRTZY1056        | Carbenicillin disodium salt::Chem-Impex:000491a9910128                               | No inventory available                      | 5/9/2022  | Chem-Impex        | Carbenicillin di |
| QRTZY1055        | Stripette™ 10 mL Polystyrene Serological Pipets, Sterile, Individually Paper/Plastic | No inventory available                      | 5/9/2022  | Thomas Scientific | Stripette™ 10 m  |
| QRTZY1054        | Sharp Precision Barrier Tips, For P-200, 200µl::Thomas Scientific:4120W70/4804       | No inventory available                      | 5/9/2022  | Thomas Scientific | Sharp Precisor   |
| QRTZY1053        | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74           | No inventory available                      | 5/10/2022 | Chem-Impex        | Carbenicillin di |
| QRTZY1052 Failed | Buffer Solution (Biphenyl)   | No inventory available                      | 5/19/2022 | Thomas Scientific | Buffer Solution  |
| QRTZY1051        | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74           | No inventory available                      | 5/10/2022 | Chem-Impex        | Carbenicillin di |
| QRTZY1050        | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74           | No inventory available                      | 5/10/2022 | Chem-Impex        | Carbenicillin di |
| QRTZY1049        | Carbenicillin disodium salt::Chem-Impex:000491a985c4f3-67a6-4d7d-ab5c-5c74           | No inventory available                      | 4/13/2022 | Chem-Impex        | Carbenicillin di |

- The requested item should appear in Quartzly's Request module. The lab manager can now approve the request (if needed) and then place an order for this requested item



## FAQs

Q. This integration helps me synchronize newly created items from Quartzly's inventory to Benchling's registry. How do I view my previously created Quartzly inventory items in Benchling?

A. You can export your Quartzly inventory into an Excel spreadsheet and then import this spreadsheet into Benchling. The help articles linked below contain more information

- Exporting inventory from Quartzly
  - <https://support.quartzly.com/hc/en-us/articles/234448328-Export-your-Quartzly-Inventory-to-Excel->
- Importing information into Benchling
  - <https://help.benchling.com/en/articles/2829496-import-registry-data-in-bulk>
  - <https://help.benchling.com/en/articles/4404526-legacy-data-import-resources>

## Upcoming improvements

- The ability to specify which Quartzly inventory types to sync from Quartzly to Benchling
- The ability to bi-directionally update inventory item information (such as quantity) between Quartzly and Benchling