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| Test Script  SAP S/4HANA - 17-09-20 | public |
| Formulation - Recipe Development (1QC\_DE) |

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# Purpose

This scope item provides Web applications to handle formulas. Formula calculation allows calculation of recipe composition and aggregation of components (such as allergens) for the formula based on the proportions of the ingredients. To facilitate comparisons between recipes derived from each other, you can display several formulas side by side. You can manage ingredients and output substances, sub-components (for example, pure substances, nutrients, or allergens) with role-based Web applications.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data and business conditions.

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name (Role) | Description | ID (Role) | Description (Space) | ID (Space) | Log On |
| Recipe Developer | Develops new products or updates products based on market(ing) requirements or legally required changes to the product and supports the handover to manufacturing. | SAP\_BR\_RECIPE\_DEVELOPER | Recipe Development | SAP\_BR\_RECIPE\_DEVELOPER |  |

## Master Data, Organizational Data, and Other Data

Sample specification, recipe and materials have been created in your system during activation. The sample data has generic recipes/materials for reference.

Use your own master data or the following sample data to go through the test procedure:

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Recipe | PLMPI\_OUTPT1/000/000 | Product 1 (Blue) | General Recipe |
| Specification – Raw Substance | PLMPI\_INPUT1 | INPUT 1 (Water) |  |
| Specification – Raw Substance | PLMPI\_INPUT5 | INPUT 5 (BLUE COLOR) |  |
| Specification – Raw Substance | PLMPI\_INPUTX | INPUT6 (ORANGE COLOR) |  |

# Overview Table

This scope item consists of several process steps provided in the table below.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step, Report or Item | Business Role | Fiori App | Expected Results |
| [Review Recipe](#unique_7) [page ] 6 | Recipe Developer | Manage Recipes (F2210) | The ingredient is present in the formula. |
| [Create a New Recipe from an Existing Recipe](#unique_8) [page ] 7 | Recipe Developer | Manage Recipes (F2210) | The following system message appears: Recipe … created. |
| [Modify Recipe Ingredients](#unique_9) [page ] 9 | Recipe Developer | Manage Recipes (F2210) | The formula is updated with the new ingredient. |
| [Release Recipe](#unique_10) [page ] 11 | Recipe Developer | My Recipe Overview (F3109) | The Status is changed to Released. |

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Review Recipe

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this process step, you review a recipe for the presence of an ingredient that you want to replace.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instructions | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori launchpad as Recipe Developer. | The SAP Fiori launchpad displays. |  |
| 2 | Access the app | Open the Manage Recipes (F2210) app. | The Manage Recipes screen displays. |  |
| 3 | Display the recipe | 1. Make the following entry, and choose Go:    * Recipe ID: PLMPI\_OUTPT1/000/000 2. In the search results, choose the recipe ID. 3. In the PLMPI\_OUTPT1/000/000 dialog box, choose Display Recipe. | The Display Recipe screen displays.  Tip You can choose the Open CoPilot icon displayed in the top menubar to open CoPilot and chat with other users and share objects, screen-shots, and so on with them. |  |
| 4 | Review the formula for the presence of the ingredient | 1. Select the Formula tab. 2. Look for PLMPI\_INPUT5 in the Specification column. | The ingredient is present in the formula. |  |

## Create a New Recipe from an Existing Recipe

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this process step, you create a new development recipe by copying an existing recipe.

Procedure

Tip If you carry out this test procedure in continuation to [Review Recipe](#unique_7) [page ] 6, then you can start directly from the Copy the recipe to a new recipe test step.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instructions | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori launchpad as Recipe Developer. | The SAP Fiori launchpad displays. |  |
| 2 | Access the app | Open the Manage Recipes (F2210) app. | The Manage Recipes screen displays. |  |
| 3 | Display the recipe | 1. Make the following entry, and choose Go:    * Recipe ID: PLMPI\_OUTPT1/000/000 2. In the search results, choose the recipe ID. 3. In the PLMPI\_OUTPT1/000/000 dialog box, choose Display Recipe. | The Display Recipe screen displays. |  |
| 4 | Copy the recipe to a new recipe | 1. From the menu, choose You can Also > Copy to New Recipe . 2. On the Create Recipe screen, choose Create Specification. 3. On the Create Specification dialog box, keep the default values, and choose OK. 4. Choose Continue. | The Create Recipe screen displays, and the General Data > Basic Data tab is selected. |  |
| 5 | Enter basic data | 1. Make the following entries:    * Description: Orange Colored Recipe    * Valid From: <Current date>    * Valid To: 12/31/9999 (Default) 2. Choose Save. | The new recipe is created. |  |
| 6 | Transfer to primary output | 1. From the menu, choose Transfer to Primary Output. 2. On the Transfer Calculation Results to Specification dialog box:    * Ensure that Key Date is the same as the Valid From date of the recipe.    * In the Data to Be Transferred section, ensure that all the checkboxes are selected. 3. Choose OK. |  |  |
| 7 | Save the recipe | Choose Save. | The changes to the recipe are saved.  Remember Note the recipe ID. You need the recipe ID to access the recipe at a later time. |  |

## Modify Recipe Ingredients

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this process step, you modify a recipe by replacing an ingredient in the recipe with another.

Procedure

Tip If you carry out this test procedure in continuation to [Create a New Recipe from an Existing Recipe](#unique_8) [page ] 7, then you can start directly from the Modify the recipe ingredients test step.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instructions | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori launchpad as Recipe Developer. | The SAP Fiori launchpad displays. |  |
| 2 | Access the app | Open the Manage Recipes (F2210) app. | The Manage Recipes screen displays. |  |
| 3 | Display the recipe | 1. Make the following entry, and choose Go:    * Recipe ID: The ID of the recipe created in [Create a New Recipe from an Existing Recipe](#unique_8) [page ] 7. For example, 000000000036/000/000 2. In the search results, choose the recipe ID. 3. In the 000000000036/000/000 dialog box, choose Display Recipe. | The Display Recipe screen displays. |  |
| 4 | Create custom layout | 1. Select the Formula tab and the Contribution sub-tab. 2. Choose Create Layout. 3. On the Create Layout dialog box:    1. In the Layout Name field, enter a name for the layout.    2. Select the Set as Default checkbox.    3. In the Category field, select Basic Columns (selected by default).    4. In the Available Columns section, select all items and choose Add.    5. Choose Save. | The custom layout is created. |  |
| 5 | Modify the recipe ingredients | 1. From the menu, choose Edit. 2. In the Layout field, select the layout created in the Create custom layout step. 3. Select the checkbox in the row containing the PLMPI\_INPUT5 specification. 4. Choose Delete. 5. Select the checkbox corresponding to one of the formula items, and choose Insert. 6. In the Specification column of the inserted item, enter PLMPI\_INPUTX, and press Enter.   A new input item is added to the recipe formula.   1. Update the quantity and unit of measure for the new input item as follows, and press Enter.    * Quantity: 4.9    * UoM: L 2. Update the quantity for the PLMPI\_INPUT1 input item as follows, and press Enter.    * Quantity: 86.1 3. Choose Save. | The modifications to the recipe ingredients are saved. |  |
| 6 | (Optional) Review the effect of the modifications | 1. Select the Input and Output sub-tab. 2. Select the checkbox in the row containing the Primary Output item type and ensure that no other checkboxes are selected. 3. Choose Show Details. | The details are displayed at the bottom of the screen.   * To review the effect of the modifications on ingredients, select the Ingredients tab. * To review the effect of the modifications on allergens, select the Allergens tab. |  |
| 7 | Transfer to primary output | 1. From the menu, choose Transfer to Primary Output. 2. On the Transfer Calculation Results to Specification dialog box:    * Ensure that Key Date is the same as the Valid From date of the recipe.    * In the Data to Be Transferred section, ensure that all the checkboxes are selected. 3. Choose OK. |  |  |
| 8 | Save the recipe | Choose Save. | The changes to the recipe are saved. |  |

## Release Recipe

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

In this process step, you release the modified recipe.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instructions | Expected Result | Comments |
| 1 | Log on | Log on to the SAP Fiori launchpad as Recipe Developer. | The SAP Fiori launchpad displays. |  |
| 2 | Access the app | Open the My Recipe Overview (F3109) app. | The My Recipe Overview screen displays. |  |
| 3 | Display the recipe | In the Recipes Created by Me section, choose the recipe created in [Create a New Recipe from an Existing Recipe](#unique_8) [page ] 7. | The Display Recipe screen displays, and the General Data > Basic Data tab is selected. |  |
| 4 | Set the recipe status to Released | 1. Choose Edit. 2. In the Status field, use the value help and select 200. 3. Choose Save.   The recipe status is set to For Release.   1. In the Status field, use the value help and select 300. 2. Choose Save. | The recipe status is set to Released. |  |

# Appendix

## Process Integration

The process to be tested in this test script is part of a chain of integrated processes.

### Preceding Processes

You may first have completed the following processes and conditions before you start with the test steps:

|  |  |
| --- | --- |
| Process | Business Condition |
| Specification Management for Recipes (1QA) | A number of specifications have been created to be used in the recipe. |

### Succeeding Processes

After completing the activities in this test script, you can continue testing the following business processes:

|  |  |
| --- | --- |
| Process | Business Condition |
| Recipe Handover to Production - Bill of Material (1QG) | The released recipe created as part of process Recipe Handover to Manufacturing – BOM (1QG) can be used for further processing in the Recipe Handover to Manufacturing – BOM (1QG) process. You can hand over the recipe to production by creating a bill of material (BOM) out of the recipe. |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

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