**Test Case 1: Happy Path**

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| **Step No.** | **Test steps : Actions** | **Expected Results** | **TO ID** | **Pump Type** | **Rule Id#** | **Result**  **(P/F/NA)** | **Automation (Y/N)** |
| 1.1 | Observe the Drug Library Information window. | Verify that there are no default values for the displayed fields. |  | All | ED\_001 ED\_002 ED\_003 ED\_004 ED\_005 ED\_006 ED\_007 |  |  |
| 1.2 | Try to save the drug library without entering any information. | Verify that the system does not allow saving. | SYRSTO- 69 | All | EDRL\_RequiredParameter ED\_001 ED\_002 ED\_003 ED\_004 |  |  |
| 1.3 | In the Name field, enter a drug library name that is unique, contains the valid characters and the number of characters are within the configured range. | Verify that the system accepted the entered drug library name. | SYRSTO- 62 | All | ED\_001  EDRL\_CharactersAllowed  EDRL\_StringLength  EDRL\_DrugLibraryNameUnicity |  |  |
| 1.4 | Try to save the drug library with the name but without entering patient parameter. | Verify that the system does not allow saving. | SYRSTO- 69 | All | EDRL\_RequiredParameter ED\_002 ED\_003 ED\_004 |  |  |
| 1.5 | Observe the units for the Patient Weight and Patient BSA fields. | Verify that Patient Weight fields have unit Kg and Patient BSA fields have unit m². | SYRSTO- 66  SYRSTO- 68 | All | ED\_002 ED\_003 ED\_004 ED\_005 ED\_006 ED\_007 |  |  |

# Test Case 2: Exception E2

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| **Step No.** | **Test steps : Actions** | **Expected Results** | **TO ID** | **Pump Type** | **Rule Id#** | **Result**  **(P/F/NA)** | **Automation (Y/N)** |
| 2.1 | Try to create another new drug library with the same name as DL1. | Verify that the system displays an error message saying that the entered name is not unique and does not create it. | SYRSTO- 76 |  | ED\_001  EDRL\_DrugLibraryNameUnicity |  |  |
| 2.2 | Enter a drug library name which is unique but contains invalid characters. | Verify that the system displays an error message saying that the entered name has invalid characters and does not create it. | SYRSTO-75 |  | ED\_001 EDRL\_CharactersAllowed |  |  |
| 2.3 | Enter a drug library name which is unique, has all valid characters but the length is not within the configured ranges of the number of characters. | Verify that the system displays an error message saying that the entered name has invalid length and does not create it. | SYRSTO-74 |  | ED\_001  EDRL\_StringLength |  |  |
| 2.4 | Enter a drug library name which is not unique, has invalid characters and the length is not within the configured ranges of the number of characters. | Verify that the system indicates that the entered name is not unique, has invalid characters and invalid length.  Verify that the system does not create any new library. | SYRSTO-74  SYRSTO-75  SYRSTO-76 |  | ED\_001 EDRL\_CharactersAllowed  EDRL\_StringLength  EDRL\_DrugLibraryNameUnicity |  |  |
| 2.5 | Now enter a drug library name which is unique, has valid characters and the length is within the configured ranges of the number of characters. | Verify that the system accepts the entered drug library name. | SYRSTO-62 |  | ED\_001 |  |  |

**Test Case 3: Happy Path with Create New Drug Dilution**

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| **Step No.** | **Test steps : Actions** | **Expected Results** | **TO ID** | **Pump Type** | **Rule Id#** | **Result**  **(P/F/NA)** | **Automation (Y/N)** |
| 3.1 | RangeConcentration - In the ‘Minimum’ dilution field enter a valid value that is within the configured value range, follows the value increments rule & valid data type. | 1. Verify that the system accepts the entered minimum dilution. 2. Verify that the concentration value generated for the Minimum range concentration is accurate and off the right concentration unit. | SYRSTO-120 |  | ED\_104  ED\_904  ED\_910  EDRL\_OrderedValues |  | Y |
| 3.2 | FixedCoupleDoseVolume - In the dilution field enter a valid value that is within the configured value range, follows the dose increments rule, is valid data type, has the right dosage units and is unique.  Example: 20mg/20ml | 1. Verify that the system accepts the entered fixed couple values for the dilution. 2. Verify that the concentration value generated for the Default and Maximum range concentration is accurate and off the right concentration unit. | SYRSTO-120 |  | ED\_107  ED\_902  ED\_910  EDRL\_FixedUniqueValues  EDRL\_MaximumNumberOfDrugDilutions  EDRL\_FixedCoupleValues |  | Y |

**Test Case 4: Create Therapy – Dilution, Device Type: Agilia SP MC**

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| **Step No.** | **Test steps : Actions** | **Expected Results** | **TO ID** | **Pump Type** | **Data**  **Dictionary Rule Id#** | **Result**  **(P/F/NA)** | **Automation (Y/N)** |
| 4.1 | Select the appropriate Device Type(s) from the list for the Therapy Dilution. | Verify that the UI reloads with the applicable fields for the Device Type(s) selected. | SYRSTO-X | Agilia SP MC | ED\_211 |  |  |
| 4.2 | Select the ‘Dose Unit’ from the available choices in the drop down menu.  Record the selected dose unit as DU1:\_\_\_\_\_\_ | Verify that the selected Dose Unit is highlighted. | SYRSTO-X | Agilia SP MC | ED\_272 |  |  |
| 4.3 | Select the dilution Type as ‘Fixed’ concentration | Verify that the Fixed radio button is highlighted | SYRSTO-X | Agilia SP MC | ED\_222 |  |  |
| 4.4 | FixedConcentration - Enter a valid dilution within a valid range. | 1. Verify that the system accepts the entered minimum dilution. 2. Verify that the concentration displayed is accurate and of the right concentration units. | SYRSTO-X | Agilia SP MC | ED\_222  ED\_904 |  |  |
| 4.5 | RangeDoseDefaultConcentrationValue – In the Volume field enter a valid value that is within the configured value range, follows the increments rule, is valid data type and whose units is in mL. | Verify that the system accepts the entered value for the volume. | SYRSTO- XX | Agilia SP MC | ED\_224  EDRL\_OrderedValues |  |  |
| 4.6 | RangeDoseDefaultConcentrationValue – In the ‘Default’ dilution field enter a valid value that is within the configured value range, follows the value increments rule, is a valid data type, has the right dose unit and follows the Ordered Values rule. | 1. Verify that the system accepts the entered dilutions. 2. Verify that the concentration value generated for the Default range concentration is accurate with the proper concentration unit. | SYRSTO- XXX | Agilia SP MC | ED\_224  ED\_904  ED\_910  EDRL\_OrderedValues |  |  |