

Microbiology Labs

The Microbiology Labs module contains additional specimen, organism, and antibiotic susceptibility data that does not fit into the Labs File.

Target Date

This module has two options for its target date definition. Note that only one option may be chosen per instance.

1. (Recommended) For a given target date, extract all microbiology labs taken on that date.
2. For a given target date, determine the list of all cases for that date. Then, extract all labs for those patients that were taken within the date range of 365 days before and after anesthesia start.

File Columns: Base lab component

Column Name	Nullable?	Data Type	Description
Micro_Lab_ID	No	varchar	The identifier of the lab component result.
Patient_ID	No	varchar	The patient identifier, must be the same identifier given in the "Patients" file
Encounter_ID	Yes	varchar	The encounter / admission / visit identifier
Order_ID	No	varchar	The row identifier of the parent lab order
Order_Procedure_Type_ID	No	varchar	The variable identifier of the lab procedure
Order_Procedure_Type_Name	No	varchar	The variable name of the of the lab procedure
Lab_Component_Type_ID	No	varchar	The identifier of the child component of the lab procedure
Lab_Component_Type_Name	No	varchar	The name of the child component of the lab procedure (lab detail)
Specimen_Type_ID	No	varchar	The variable identifier of the specimen type
Specimen_Type_Name	No	varchar	The variable name of the specimen type
Order_Result	No	varchar	The value of the lab result. Those with multiple lines/results should be appended together.
Order_Result_Comments	Yes	varchar	Additional details/comments regarding the lab result, such as describing exceptional circumstances
Order_Result_Status	Yes	varchar	Describes the status of the lab result
Collection_Time	Yes	datetime	The time the lab sample was obtained
Result_Time	No	datetime	The time the lab result was returned

Additional Column Details

Micro_Lab_ID

It may be necessary to manufacture this row identifier if one does not exist in the source system. One recommended approach is to concatenate other identifiers:

PatientId-OrderId-ComponentId-Line. When doing so, be aware of the character limit for this column.

Specimen_Type_ID

If one doesn't exist, reuse the value for Speciment_Type_Name

Rarely, some lab values will have an additional codified representation from a standard lexicon. For example, a value indicating a diagnosis of “diabetes” may also have a value code of “E11.9”, the ICD-10 representation of diabetes. The vast majority of lab results do not have such a code and therefore this field is commonly blank.

Encounter_ID

Optional but strongly recommended.

File Columns: Antibiotic Sensitivity Findings

Column Name	Nullable?	Data Type	Description
Isolate_Sub_ID	Yes*	integer	The row identifier of the specific isolate used on the order component.
Isolate_Organism_ID	Yes*	varchar	The organism isolated in the lab component
Isolate_Organism_Name	Yes*	varchar	The organism isolated in the lab component
Sensitivity_Agent_ID	Yes*	varchar	The antibiotic the isolate organism was tested on
Sensitivity_Agent_Name	Yes*	varchar	The antibiotic the isolate organism was tested on
Sensitivity_Value	Yes**	varchar	The lowest concentration of antibiotic required to inhibit growth of the isolate_organism
Sensitivity_Value_Units	Yes**	varchar	The units of measure used in the Sensitivity_Value field
Sensitivity_Interpretation	Yes**	varchar	The sensitivity value interpretation
Sensitivity_Final_Status	Yes**	varchar	The status of the sensitivity findings

Additional Column Details

Isolate_Sub_ID

Useful for grouping different isolates on either the same organism or different organisms.

Specimen_Type_ID

If one doesn't exist, reuse the value for Speciment_Type_Name

Encounter_ID

Optional but strongly recommended.

