**GSCID/BRC Project and Sample Application Standard**

**Bacteria Specific**

**v1.3**

How to interpret the document:

**BOLD**: Field Name

*ITALICS*: Attributes of the field

1. **Bacteria Antibiotic Sensitivity**

Project-Specific Field ID: BAC1

Field Name: Bacteria Antibiotic Sensitivity

Description: Results of tests for antibiotic resistance, usually   
 measured in minimum inhibitory concentration  
 (MIC). Format: name of an antibiotic followed by   
 'MIC' other name of other metric and a measure

of the quantity of antibiotic in ug/ml.

NCBI Component Name: BioSample

NCBI Component Synonym:

NCBI Component Definition:

OBO Foundry Synonym: drug susceptibility of infectious agent

OBO Foundry Purl: http://purl.obolibrary.org/obo/IDO\_0000470

OBO Foundry Definition: A drug susceptibility that inheres in an infectious

agent and is the degree to which the infectious agent

can be harmed or inhibited from surviving by a

drug.

Other Synonym: encoded traits (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: text

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: All allowed

Syntax:

Example Values: “kanamycin MIC 100 μg/ml; streptomycin MIC 20 μg/ml.”

Data Source:

Comments:

1. **Bacteria Biovar**

Project-Specific Field ID: BAC2

Field Name: Bacteria Biovar

Description: Commonly used descriptor of distinguishing

physical or biochemical characteristics of a bacteria.

NCBI Component Name: BioSample

NCBI Component Synonym:

NCBI Component Definition:

OBO Foundry Synonym: bio-variety

OBO Foundry Purl: <http://purl.obolibrary.org/obo/TAXRANK_0000032>

*(NOTE: Purl for this term is specified in* [*http://purl.obolibrary.org/obo/taxrank.owl*](http://purl.obolibrary.org/obo/taxrank.owl) *but produces   
Term Not Found page in Ontobee.)*

OBO Foundry Definition:

Other Synonym: subspecific genetic lineage (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: text

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: All allowed

Syntax:

Example Values: “biovar 4” as in “*B suis* 2579 (biovar 4)”

Data Source:

Comments:

1. **Bacteria Chromosome Content**

Project-Specific Field ID: BAC3

Field Name: Bacteria Chromosome Content

Description: Number of chromosomes in bacteria.

NCBI Component Name: BioSample

NCBI Component Synonym:

NCBI Component Definition:

OBO Foundry Synonym:

OBO Foundry Purl: http://purl.obolibrary.org/obo/GO\_0005694

OBO Foundry Definition:

Other Synonym: number of replicons (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: integer

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: Unknown/Censored

Syntax:

Example Values: 1

Data Source:

Comments:

1. **Bacteria Extra Chromosomal Elements**

Project-Specific Field ID: BAC4

Field Name: Bacteria Extrachromosomal Content

Description: Number of extrachromosomal elements in bacteria.

NCBI Component Name: BioSample

NCBI Component Synonym:

NCBI Component Definition:

OBO Foundry Synonym:

OBO Foundry Purl: <http://purl.obolibrary.org/obo/OBI_0000430>

OBO Foundry Definition:

Other Synonym: extrachromosomal elements (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: integer

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: Unknown/Censored

Syntax:

Example Values: 2

Data Source:

Comments:

1. **Bacteria Pathovar**

Project-Specific Field ID: BAC5

Field Name: Bacteria Pathovar

Description: Commonly used descriptor of distinguishing physical or biochemical characteristics of a bacteria.

NCBI Component Name: BioSample

NCBI Component Synonym: pathovar

NCBI Component Definition:

OBO Foundry Synonym: patho-variety

OBO Foundry Purl: <http://purl.obolibrary.org/obo/TAXRANK_0000048>

*(NOTE: Purl for this term is specified in* [*http://purl.obolibrary.org/obo/taxrank.owl*](http://purl.obolibrary.org/obo/taxrank.owl) *but produces   
Term Not Found page in Ontobee.)*

OBO Foundry Definition:

Other Synonym: subspecific genetic lineage (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: text

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: All allowed.

Syntax:

Example Values: “BCG” as in “*M. bovis-*BCG”

Data Source:

Comments:

1. **Bacteria Serotype**

Project-Specific Field ID: BAC6

Field Name: Bacteria Serotype

Description: Serotype of the bacteria identified in the isolate sample.

This is an identity determined by the data generated by the

sequencing center.

NCBI Component Name: BioSample

NCBI Component Synonym: serovar

NCBI Component Definition:

OBO Foundry Synonym:

OBO Foundry Purl: http://mged.sourceforge.net/ontologies/MGEDOntology.owl#Serotype

OBO Foundry Definition:

Other Synonym: subspecific genetic lineage (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: text

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: All allowed.

Syntax:

Example Values: “Typhi” as in “*S. enterica* *subsp. enterica* ser. Typhi”

Data Source:

Comments:

1. **Bacteria Serotyping Method**

Project-Specific Field ID: BAC7

Field Name: Bacteria Serotyping Method

Description: Experimental technique used to determine the

serotype of the pathogen species in the isolate

sample

NCBI Component Name: BioSample

NCBI Component Synonym:

NCBI Component Definition:

OBO Foundry Synonym:

OBO Foundry Purl: <http://purl.bioontology.org/ontology/SNOMEDCT/258075003>

OBO Foundry Definition:

Other Synonym: subspecific genetic lineage (MIxS)

Data Categories: Pathogen Characteristics

Allowed Values: text

Alternate Allowed Values:

Unknown/Not Applicable/Censored Allowed: All allowed.

Syntax:

Example Values: “Kauffmann-White method”

Data Source:

Comments: