

DPCC Data Standard Reference for Viral Isolate Data v2.1

| | Project_Identifier | Contributing_Institution | Sample_Identifier |
|-------------------------|--|--|---|
| Input Type | Text Field | Text Field | Text Field |
| Definition | A unique Project Identifier generated by the DPCC by combining the Center-generated Project Code and a random 4-digit number | The institution code for the group that PERFORMED THE ANALYSIS. Must be one of the CEIRS institution codes assigned by NIAID | Identifier initially assigned to each sample collected. If multiple samples are taken from the same host, each sample should have its own identifier. |
| Format | Project_Code_XXXX Maximum length: 21 characters | Center three-letter code followed by three digits. Maximum length: 6 characters | Center-specific Allowed characters include alphanumeric, hyphen, and underscore: a-z, A-Z, 0-9, -, _ Maximum length: 50 characters |
| Value List | None | None | None |
| Curation | The entry must be a Project Identifier value registered with the DPCC. | The entry must be an Institution Code value registered with the DPCC. Center 3-letter codes are case-sensitive and must be entered in all-caps. | The Sample_Identifier initially assigned to the surveillance sample must be provided. |
| Examples | SJProj02_4001 | SJC101 | 22258468 |
| Notes | | A different Contributing_Institution may have performed the original collection of the surveillance sample that was analyzed. | Submissions without a corresponding surveillance submission will be listed as orphaned records. |
| Dependent Fields | | | |
| Validation | Project_Identifier should be a valid project identifier. | Must be an Institution Code value registered with the DPCC | Validate field length |
| Message Code | Error_9_PROJECT_NOT_FOUND | Error_1_INVALID_VALUE | Error_70_INVALID_FIELD_LENGTH |
| Validation | Project_Identifier exists but user does not have permission to access or edit the project. | | |
| Message Code | Error_4_DENIED_USER_ACCESS | | |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
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| Message Code | | | |
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| Message Code | | | |
| Validation | | | |
| Message Code | | | |

| | Embargo_End_Date | Virus_Identifier | Influenza_Test_Type |
|-------------------------|--|--|---|
| Input Type | Date Field | Text Field | Text Field |
| Definition | In case an embargo of the information is needed, the date that the information should be released to the public databases by the DPCC | A unique laboratory identifier assigned to this virus by the collector. | Assay and target used for virological assessment, as listed in the DPCC Data Dictionary |
| Format | DD-Mon-YYYY DD-Mon-YY NA Maximum length: 11 characters | Text Allowed characters include alphanumeric, hyphen, and underscore: a-z, A-Z, 0-9, -, _ Maximum length: 50 characters | Assay/Analyte Maximum length: 200 characters |
| Value List | Date NA | Text NA | DPCC Data Dictionary NA |
| Curation | 1. Leading 0 in DD is optional. 2. Month must match the first three letters of the month. Month is NOT case sensitive. 3. Years may have two or four digits. 4. Date must conform to NIAID data release policies. | None | The entry must be one or more comma-separated members of the Value List. If multiple tests are performed, separate each Assay/Analyte combination with a comma. For each assay performed, the target or analyte must be specified after the / character. Enter NA for serum samples. |
| Examples | 3-Mar-2011, 03-Mar-2011, 03-MAR-2011, 3-MAR-11, or NA | 100245 | RRT-PCR/MP |
| Notes | An exact date must be provided. If Embargo_End_Date is NA, information will be released without delay. Embargo_End_Date cannot be more than 12 months after submission. | Provides an additional layer of tracking if Strain_Name is not unique or multiple viruses were isolated from a single surveillance sample. | Please reference the DPCC Data Dictionary for the Assay and Analyte allowed values. |
| Dependent Fields | | | Influenza_Test_Result, Influenza_Test_Interpretation, Definition_of_Positive_Sample |
| Validation | Embargo_End_Date must be exact date and cannot be a past date. | Validate field length | Fields Influenza_Test_Type, Influenza_Test_Antigen, Influenza_Test_Result, Influenza_Test_Interpretation must have same number of values |
| Message Code | Error_7_INVALID_EMBARGO_DATE | Error_70_INVALID_FIELD_LENGTH | Error_63_INVALID_NUMBER_ENTRIES |
| Validation | Embargo_End_Date cannot be more than 12 months after submission. | | Validate field length |
| Message Code | Error_100_EMBARGO_DATEError_12M | | Error_70_INVALID_FIELD_LENGTH |
| Validation | | | Values must reference DPCC Data Dictionary. |
| Message Code | | | Error_13_REFER_TO_DATA_DICTIONARY |
| Validation | | | Influenza_Test_Type should follow format assay/analyte |
| Message Code | | | Error_101_TEST_TYPE_FORMAT |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
| Message Code | | | |

| | Influenza_Test_Result | Influenza_Test_Interpretation | Definition_of_Positive_Sample |
|-------------------------|---|--|---|
| Input Type | Text Field | Text Field | Text Field |
| Definition | The numerical result(s) of Influenza_Test_Type | The Positive, Negative, or Inconclusive interpretation of the Influenza_Test_Result value(s) | Provide the CT values that the investigator is classifying as a positive influenza sample. |
| Format | Text Maximum length: 50 characters | Text Maximum length: 50 characters | Text Maximum length: 100 characters |
| Value List | Number U NA | P N U NA | Text NA |
| Curation | For each assay listed under Influenza_Test_Type, provide a single numerical value. If multiple comma-separated tests are listed under Influenza_Test_Type, Influenza_Test_Result must list the same number of comma-separated test results (see notes for examples). Enter U when quantitative assay results are not known. Enter NA if the value under Influenza_Test_Type is NA. | | If multiple comma-separated tests are listed under Influenza_Test_Type, Definition_of_Positive_Sample must list the same number of comma-separated test results. Enter NA if the Definition_of_Positive_Sample is unavailable or Influenza_Test_Interpretation is negative or unknown. |
| Examples | 24.5 | P | 35 |
| Notes | Example: if Influenza_Test_Type lists RRT-PCR/HA,VI/MDCK then Influenza_Test_Result would read 24.5,30.7 | P = Positive N = Negative U = Unknown or inconclusive NA = Not Applicable Example: if Influenza_Test_Type lists RRT-PCR/MP,VI/MDCK then Influenza_Test_Interpretation would read P,N | |
| Dependent Fields | Influenza_Test_Type, Influenza_Test_Interpretation, Definition_of_Positive_Sample | Influenza_Test_Type, Influenza_Test_Result, Definition_of_Positive_Sample | Influenza_Test_Type, Influenza_Test_Result, Influenza_Test_Interpretation |
| Validation | Fields Influenza_Test_Type, Influenza_Test_Antigen,Influenza_Test_Result,Influenza_Test_Interpretation must have same number of values | Fields Influenza_Test_Type, Influenza_Test_Antigen,Influenza_Test_Result,Influenza_Test_Interpretation must have same number of values | Fields Influenza_Test_Type, Influenza_Test_Antigen,Influenza_Test_Result,Influenza_Test_Interpretation must have same number of values |
| Message Code | Error_63_INVALID_NUMBER_ENTRIES | Error_63_INVALID_NUMBER_ENTRIES | Error_63_INVALID_NUMBER_ENTRIES |
| Validation | Validate field length | Field value should be one of valid values as in list. | Validate field length |
| Message Code | Error_70_INVALID_FIELD_LENGTH | Error_1_INVALID_VALUE | Error_70_INVALID_FIELD_LENGTH |
| Validation | Value must be number, U, or NA | | |
| Message Code | Error_86_INVALID_NUM_U_NA | | |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
| Message Code | | | |
| Validation | | | |
| Message Code | | | |

| | Strain_Name |
|-------------------------|--|
| Input Type | Text Field |
| Definition | The WHO or ICTV strain name of the virus that was isolated from the sample |
| Format | <p>Influenza A virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation (Subtype)</p> <p>Influenza B, C, or D virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation</p> <p>SARS-CoV-2 and other viruses: Virus Name/Host of Origin/Geographical Origin/Strain Number/Year of Isolation</p> <p>Maximum length: 150 characters</p> |
| Value List | Text U NA |
| Curation | <p>For influenza viruses, strain names most follow WHO naming convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. The antigenic type (e.g., A, B, C, D) 2. The host of origin (e.g., swine, equine, chicken. For human-origin viruses, no host of origin designation is given.) 3. Geographical origin (e.g., Denver, Taiwan) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2009, 1934) 6. For influenza A viruses, the hemagglutinin and neuraminidase antigen description in parentheses (e.g., (H1N1), (H3N2)) <p>For SARS-CoV-2 viruses, strain names most follow ICTV naming convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. Virus name (e.g., SARS-CoV-2) 2. The host of origin (e.g., human. Human-origin viruses must include the origin designation.) 3. Country of geographical origin as a three-letter code from the DPCC's Country Codes list (e.g., USA, MEX, CAN) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2019, 2020) <p>For all other viruses, please use the following convention: Fields must be ordered as follows and separated with the '/' character:</p> <ol style="list-style-type: none"> 1. Virus name (e.g., MERS-CoV, Bat-CoV, etc.) 2. The host of origin (e.g., human, bat, camel. Human-origin viruses must include the origin designation.) 3. Geographical origin, either regional locality or country (e.g., Denver, Taiwan) 4. Strain number (e.g., 15, 7) 5. Year of isolation (e.g., 2019, 2020) |
| Examples | <p>For influenza: A/Hong Kong/1/1968 (H3N2), A/chicken/Fujian/4/2002 (H3N6), A/chicken/Fujian/4/2002 (HxNx), A/chicken/Fujian/4/2002 (mixed), A/swine/Iowa/233-56/2011 (H3N2), A/duck/Alberta/35/1976 (H1N1), B/Hong Kong/432/2014, C/Texas/19876/2011, or D/swine/Oklahoma/1334/2011</p> <p>For SARS-CoV-2: SARS-CoV-2/human/USA/NY-PV08486/2020</p> <p>For other viruses: PHEV-CoV/swine/USA/15TOSU25049/2015</p> |
| Notes | <p>WHO Reference for influenza viruses: http://www.cdc.gov/flu/about/viruses/types.htm ICTV Reference for SARS-CoV-2 viruses: https://pubmed.ncbi.nlm.nih.gov/32123347</p> <p>(HxNx) can be used in cases where a partial subtype has been determined (e.g., H5Nx, HxN2).</p> <p>If there are mixed subtypes contained within a sample use A/chicken/Fujian/4/2002 (mixed) for Strain_Name and enter additional subtype information in the Comments field.</p> |
| Dependent Fields | |
| Validation | Validate field length |
| Message Code | Error_70_INVALID_FIELD_LENGTH |
| Validation | Geographical origin element of strain name must be alphanumeric, underscore, dash, period, or single quote: a-z, A-Z, 0-9, _, -, ., ' |
| Message Code | Error_138_INVALID_LOCATION_STRAIN_TEXT |
| Validation | Strain number element of strain name must be alphanumeric, underscore, dash, or period: a-z, A-Z, 0-9, _, -, . |
| Message Code | Error_139_INVALID_STRAIN_NUMBER_STRAIN_TEXT |
| Validation | Year of isolation element of strain name must be 4-digit year. |
| Message Code | Error_110_INVALID_STRAIN_YEAR |
| Validation | If strain is influenza A, subtype must be present as text between parentheses. |
| Message Code | Error_112_INVALID_STRAIN_SUBTYPE |
| Validation | Brackets cannot be present if strain does not have rg- prefix. |
| Message Code | Error_119_INVALID_STRAIN_BRACKETS |
| Validation | If included, the strain must have a matched pair of opening and closing brackets or parentheses. |
| Message Code | Error_158_INVALID_STRAIN_OPEN_BRACKETS |
| Validation | Brackets cannot be present if strain does not have rg- prefix. |
| Message Code | Error_159_INVALID_NUMBER_OF_STRAIN_ELEMENTS |

