DPCC Data Standard Reference for Ferret Tissue Reagent v1.1

	Project_Identifier	Contributing_Institution	Sample_Identifier	Sample_Material
Input Type	Text Field	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 CREATED THE REAGENT. Must be one of the CEIRS institution codes assigned by NIAID.	Identifier assigned to the reagent	Material from which the reagent was derived
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	Text Maximum length: 30 characters
Value List	None	None	Text NA	AIR BAL BLO CCF CCO CCT CLO FEC LLF LUN NAL NAS NTS ORP OTH- OTT PLS RCS SER SLU SOI SPU TFB TFH TFL TFS TFT TLN TNC TRS WAT U
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.	None	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.
Examples	SJCProj02_4001	SJC101	SSC-001	LUN, or TFS
Notes				AIR = Air BAL = Bronchoalveolar lavage BLO = Blood CCF = Combined cloacal and fecal CCO = Combined cloacal and oral-pharyngeal CCT = Combined cloacal and tracheal CLO = Cloacal FEC = Feces LLF = Lung lavage fluid LUN = Lungs NAL = Nasal lavage NAS = Nasal swab NTS = Combined nasal throat swab ORP = Oral-pharyngeal OTH- = Other; append free text to describe OTT = Other tissue PLS = Plasma RCS = Rectal swab SER = Serum SLU = Slurry SOI = Soil SPU = Sputum TFB = Tissue from brain TFH = Tissue from heart TFL = Tissue from liver TFS = Tissue from spleen TFT = Tissue from trachea TLN = Tissue from lymph node TNC = Tissue from nasal cavity TRS = Tracheal swab WAT = Water U = Unknown
Dependent Fields				
Validation	Project_Identifier should be a valid project identifier.	Must be an Institution Code value registered with the DPCC	Validate field length	Field value should be one of valid values as in list. NOTE: User can enter other value by prefixing 'OTH-'
Message Code	Error_9_PROJECT_NOT_FOUND	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_1_INVALID_VALUE
Validation	Project_Identifier exists but user does not have permission to access or edit the project.			Validate field length
Message Code	Error_4_DENIED_USER_ACCESS			Error_75_INVALID_FIELD_LENGTH_OTH
Validation				
Message Code				
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Message Code				
Validation				
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Validation				
Message Code				
Validation				
Message Code				
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Message Code				
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Message Code				

	Sample_Material_Area	Sample_Material_Form	Infected
Input Type	Text Field	Text Field	Text Field
Definition	Region of tissue from which the reagent was derived	Description of the type of material in which the reagent is supplied	Is the reagent derived from an infected sample?
Format	Text Maximum length: 50 characters	Text Maximum length: 30 characters	Text Maximum length: 1 character
Value List	Text NA	Text	Y N
Curation	Enter NA if the reagent is not derived from tissue or is not associated with a region	None	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.
Examples	Left Lung, Upper Left Lung, Lower Left Lung, Right Lung, Upper Right Lung, Middle Right Lung, or Lower Right Lung	Bronchioaveolar Fluid, Cell Suspension, Fluid, Homogenate, Nasal Fluid, PBMC in RNALater, Single Cell Suspension, Trachea cells in RNALater, or Whole Tissue	Y
Notes			Y = Yes N = No
Dependent Fields			Strain_Name, Days_Post_Infection
Validation	Validate field length	Validate field length	Field value should be one of valid values as in list.
Message Code	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_1_INVALID_VALUE
Validation			
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	Strain_Name
Input Type	Text Field
Definition	The WHO or ICTV strain name of the virus that was used to create the reagent
Format	Influenza A virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation (Subtype), or rg-Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation [rg details] (Subtype) Influenza B, C, or D virus: Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation, or rg-Antigenic Type/Host of Origin/Geographical Origin/Strain Number/Year of Isolation [rg details] SARS-CoV-2 and other viruses: Virus Name/Host of Origin/Geographical Origin/Strain Number/Year of Isolation, or rg-Virus Name/Host of Origin/Geographical Origin/Strain Number/Year of Isolation [rg details] Maximum length: 150 characters
Value List	Text U NA
Curation	For influenza viruses, strain names most follow WHO naming convention: Fields must be ordered as follows and separated with the '/' character: 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)) For SARS-CoV-2 viruses, strain names most follow ICTV naming convention: Fields must be ordered as follows and separated with the '/' character: 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) For all other viruses, please use the following convention: Fields must be ordered as follows and separated with the '/' character: 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) If the strain is a reverse genetic virus, prefix Strain_Name with rg-. Provide reverse genetic details in brackets after the year of isolation and before the subtype.
Examples	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, D/swine/Oklahoma/1334/2011, rg-A/Puerto Rico/8/1934 (H1N1), or rg-A/Egypt/N03072/2010 [PR8 internal R 6+2] (H5N1) For SARS-CoV-2: SARS-CoV-2/human/USA/NY-PV08486/2020 For other viruses: PHEV-CoV/swine/USA/15TOSU25049/2015
Notes	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 (HxNx) can be used in cases where a partial subtype has been determined (e.g., H5Nx, HxN2). 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.
Dependent Fields	Infected, Days_Post_Infection
Validation	Validate field length
Message Code	Error_70_INVALID_FIELD_LENGTH
Validation	Host of origin element of strain name must be alphanumeric, underscore, dash, period, or single quote: a-z, A-Z, 0-9, _, -, ., '
Message Code	Error_137_INVALID_HOST_SPECIES_STRAIN_TEXT
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	The strain must have four or five elements separated by a slash '/' character.
Message Code	Error_159_INVALID_NUMBER_OF_STRAIN_ELEMENTS

	Days_Post_Infection	Host_Identifier	Host_Common_Name	Host_Sex	Supplied_as	Concentration
Input Type	Text Field	Text Field	Text Field	Text Field	Text Field	Text Field
Definition	The number of days post infection the sample was harvested	An identifier assigned to the host animal from which the reagent was derived	The English common name given to a particular species as listed in the DPCC Species Dictionary from which the reagent was derived.	Gender of host animal from which the sample was taken	A description of the reagent's storage and shipping condition	The concentration of the reagent
Format	Text Maximum length: 2 characters	Text Allowed characters include alphanumeric, hyphen, and underscore: a-z, A-Z, 0-9, -, _ Maximum length: 50 characters	Text Maximum length: 100 characters	Text Maximum length: 1 character	Text Maximum length: 30 characters	Text Maximum length: 30 characters
Value List	Number NA	Text U	DPCC Species Dictionary U	M F U	Text	Text NA
Curation	The entry must be a number or NA Enter NA if the reagent is derived from an uninfected sample	The entry must be a text string or U.	The entry must be a text string or U. If the entry is not U, the host common name is validated against the DPCC Species Dictionary.	The entry must be one and only one member of the Value List. Values are case-sensitive and must be entered in all-caps.	None	None
Examples	3	F001	ferret	M	Aliquot	1x10E6/ml
Notes		If multiple samples are collected from a host, then all reagents must reference the same Host_Identifier.	Please reference the DPCC Species Dictionary for allowed values.	M = Male F = Female U = Unknown		The DPCC does not accept the carrot ^ character, as in 1x10^6/ml. These data can be entered as 1x10E6/ml
Dependent Fields	Infected, Strain_Name					
Validation	Validate field length	Validate field length	Validate against DPCC Species Dictionary	Field value should be one of valid values as in list.	Validate field length	Validate field length
Message Code	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH
Validation						
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	Publication_PMID	Quantity_Available	Quantity_Minimum	Make_Public	Availability	Contact_Name	Contact_Email	Comments
Input Type	Text Field	Number Field	Number Field	Text Field	Text Field	Text Field	Text Field	Text Field
Definition	The PubMed Unique Identifier (PMID) for the publication in which the reagent was published.	The quantity of reagent available	The minimum quantity of reagent to remain available on the reagent request interface	Whether the reagent should be displayed on the reagents page on the CEIRS Public Website in addition to the DPCC Portal	Whether the reagent is available to share with other investigators on the reagents page of the CEIRS Public Website	The name of the point-of-contact for reagent requests	Email address for the point-of-contact	Text describing anything else of interest related to the submission
Format	PMID Maximum length: 50 characters	Integer Maximum length: 4 characters	Integer Maximum length: 4 characters	Text Maximum length: 1 character	Text Maximum length: 1 character	FirstName LastName FirstName MI. LastName Maximum length: 50 characters	Text@domain.com Maximum length: 50 characters	Text Maximum length: 2000 characters
Value List	Text NA	Number	Number	Y N	Y N	None	None	Text NA
Curation	The entry must be a valid PMID number: 7 or 8-digit number with no leading zeros. http://www.nlm.nih.gov/bsd/mms/medlineelements.html#pmid	The entry must be a valid integer between 0-9999	The entry must be a valid integer between 0-9999	The entry must be one and only one member of the Value List.	The entry must be one and only one member of the Value List.	None	The entry must be a valid email address.	None
Examples	19465683, or NA	50	5	Y	Y	Jane Smith, or Davey M. Jones	jsmith@email.edu	NA
Notes	If the reagent was referenced in multiple publications, comma-separate the individual PMIDs. Enter NA if the reagent was not referenced in a publication.		If 0 is entered, reagent requests will be permitted for all aliquots available. If a number greater than zero is entered, the reagent will be removed from the reagent request interface when the value in the Quantity_Available field is less than or equal to the value in the Quantity_Minimium field.	Y = Yes N = No	Y = Yes N = No			If there are no comments, enter NA.
Dependent Fields								
Validation	Validate field length	Validate field length	Validate field length	Field value should be one of valid values as in list.	Field value should be one of valid values as in list.	Validate field length	Validate field length	Validate field length
Message Code	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_1_INVALID_VALUE	Error_1_INVALID_VALUE	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH	Error_70_INVALID_FIELD_LENGTH
Validation	Must be a valid PMID.	Must be a valid number	Must be a valid number				Must be a valid email address.	
Message Code	Error_96_INVALID_PMID	Error_18_ATTRIBUTE_VALUE_TYPE	Error_18_ATTRIBUTE_VALUE_TYPE				Error_114_INVALID_EMAIL	
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