Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking		
	Colour Code Legend					IMPORTANT: Only labels and/or IDs will be deprecated, always with replacement version	Label	ID	Description/Gui dance
	field name in yellow = required					provided. If a term changes in its meaning, a new term will be created.			dance
	field name in purple = recommended					new term will be created.			
	field name in white = optional								
	Database Identifiers	GENEPIO:0001122		Store the collector sample ID. If this number is					
				considered identifiable information, provide an alternative ID. Be sure to store the key that maps					
				between the original and alternative IDs for traceability and follow up if necessary. Every					
				collector sample ID from a single submitter must be unique. It can have any format, but we					
Database identifiers	and the second s	GENEPIO:0001123	The user-defined name for the sample.	suggest that you make it concise, unique and	ASDFG123		1.0.0	1.0.0	1.0.0
Database identifiers	specimen_collector_sample_ID	GENEPIO:0001123	The user-defined name for the sample.	consistent within your lab.	ASDFG123		1.0.0	1.0.0	1.0.0
Database identifiers	specimen_collector_subsample_ID	GENEPIO:0100752	The user-defined identifier assigned to a portion of the original sample.	Store the ID for the subsample/aliquot. If the sample being analyzed is the result of	ASDFG123_12	2	1.0.0	1.0.0	1.0.0
			The same defined blood for a large state of the same state of the	pooling individual samples, rename the pooled sample with a new identifier. Store the pooled					
Database identifiers	pooled_sample_ID	GENEPIO:0100996	The user-defined identifier assigned to a combined (pooled) set of samples.	sample ID.	12345AYZ		1.0.0	1.0.0	1.0.0
				Store the ID for the site from which a sample was taken. The "site" is user defined (e.g. it may					
				be a building and its environs, a specific entity within an environment). Please use the same					
				site ID for all samples from a given site, regardless of when these samples were taken.					
Database identifiers	assessible to a like UD	GENEPIO:0100760	The user-defined identifier assigned to a specific location from which	Any important changes in site location, should	Site 12A		1.0.0	1.0.0	1.0.0
Database identifiers	sampling_site_ID	GENEPIO:0100760	samples are taken.	be represented with a new site ID. Store the ID for the event during which a sample			1.0.0	1.0.0	1.0.0
				or samples were taken. For example, an event could be one person taking samples from					
Database identifiers	sampling event ID	GENEPIO:0100761	The user-defined identifier assigned to a specific event during which one or more samples are taken, from one or more sites.	multiple sites, or multiple people taking samples from one site.	Event 120522.	1	1.0.0	1.0.0	1.0.0
	. 3		,	Store the BioProject accession number.					
				BioProjects are an organizing tool that links together raw sequence data, assemblies, and					
				their associated metadata. Each province will be assigned a different bioproject accession					
				number by the National Microbiology Lab. A valid NCBI BioProject accession has prefix					
Database identifiers	BioProject_accession	GENEPIO:0001136	The INSDC (i.e., ENA, NCBI, or DDBJ) accession number of the BioProject(s) to which the BioSample belongs.	PRJN e.g., PRJNA12345, and is created once a the beginning of a new sequencing project.	PRJNA608651		1.0.0	1.0.0	1.0.0
				Store the accession returned from the BioSample submission. NCBI BioSamples will	SAMN1418020 2.				
Database identifiers	BioSample accession	GENEPIO:0001139	The identifier assigned to a BioSample in INSDC (i.e., ENA, NCBI, or DDBJ) archives.	have the prefix SAMN, ENA have the prefix SAMEA. DDBJ have SAMD	SAMD0000000		1.0.0	1.0.0	1.0.0
Database identifiers	Diodampic_accession	CENEL IO.0001133	bbb) aranyes.	OAMEA, DDB0 Have OAMB			1.0.0	1.0.0	1.0.0
			The versioned identifier assigned to an assembly or consensus	Store the versioned GenBank accession					
Database identifiers	GenBank_accession_(versioned)	GENEPIO:0100754	sequence in GenBank archives.	assigned to the submitted sequence.	LZ986655.1		1.0.0	1.0.0	1.0.0
			The Sequence Read Archive (SRA) identifier linking raw read data, methodological metadata and quality control metrics submitted to the	Store the accession assigned to the submitted sequence. NCBI-SRA accessions start with					
Database identifiers	SRA_accession	GENEPIO:0001142	INSDC.	SRR.	SRR11177792		1.0.0	1.0.0	1.0.0
				Store the accession assigned to the submitted					
Database identifiers	ENA_accession	GENEPIO:0100755	The identifier assigned to a sequence in the European Nucleotide Archive (ENA).	sequence. ENA sequence accessions start with ERR.	ERR123456		1.0.0	1.0.0	1.0.0
Database identifiers	DRA accession	GENEPIO:0100757	The identifier assigned to a sequence in DNA Data Bank of Japan (DDBJ) sequence read archives.	Store the accession assigned to the submitted sequence, DRA accessions start with DRR.	DRR123456		1.0.0	1.0.0	1.0.0
		32.12.10.0100/3/	\===-/, -oqualica rada distilitas.		3111120700			1.0.0	1.0.0
	Sample collection and processing	GENEPIO:0001150							
			The name of the individual responsible for the data governance,	Provide the name of the sample collection data					
Sample collection and processing	sample_collection_data_steward_name	GENEPIO:0100762	(meta)data usage and distribution of the sample.	steward.	Joe Bloggs		1.0.0	1.0.0	1.0.0
				Provide the email address of the sample collection data steward. This may or may not be					
				the same individual/organization that collected the sample. If the contact is the same, provide					
Sample collection and processing	sample_collection_data_steward_contact_email	GENEPIO:0101107	The email address of the individual responsible for the data governance, (meta)data usage and distribution of the sample.	the same address as the "sample collector contact email".	bloggsj@aglab ca		1.0.0	1.0.0	1.0.0
			· · · · · · · · · · · · · · · · · · ·						

		Ontology				Deprecated Label Deprecated ID	Version		
Parent Class	Field	Identifier	Definition	Guidance	Examples	Depresarea Euser Depresarea is	Tracking		
Sample collection and processing	sample_collected_by	GENEPIO:0001153	The name of the organization with which the sample collector is affiliated.	The name of the agency should be written out in full, (with minor exceptions) and be consistent across multiple submissions.	Public Health Agency of Canada		1.0.0	1.0.0	1.0.0
Occupies all address and accounting		OFNIFDIO 0004450	The email address of the contact responsible for follow-up regarding the	The email address can represent a specific individual or lab e.g. johnnyblogs@lab.ca, or	WaterTester@f		400	100	100
Sample collection and processing	sample_collector_contact_email	GENEPIO:0001156	sample.	RespLab@lab.ca	acility.ca		1.0.0	1.0.0	1.0.0
Sample collection and processing	geo_loc_name_(country)	GENEPIO:0001181	The country of origin of the sample.	If known, select a value from the pick list.	Canada		1.0.0	1.0.0	1.0.0
Sample collection and processing	geo_loc_name_(state/province/territory)	GENEPIO:0001185	The state/province/territory of origin of the sample.	Provide the state/province/territory name from the GAZ geography ontology. Search for geography terms here: https://www.ebi.ac.uk/ols/ontologies/ga	Western Cape		1.0.0	1.0.0	1.0.0
				Provide the county/region name from the GAZ geography ontology. Search for geography terms					
Sample collection and processing	geo_loc_name_(county/region)	GENEPIO:0100280	The county/region of origin of the sample.	here: https://www.ebi.ac.uk/ols/ontologies/gaz	Derbyshire		1.0.0	1.0.0	1.0.0
Sample collection and processing	geo_loc_name_(city)	GENEPIO:0001189	The city of origin of the sample.	Provide the city name from the GAZ geography ontology. Search for geography terms here: https://www.ebi.ac.uk/ols/ontologies/gaz	Vancouver		1.0.0	1.0.0	1.0.0
Sample collection and processing	geo_loc_name_(site)	GENEPIO:0100436	The name of a specific geographical location e.g. Credit River (rather than river).	Provide the name of the specific geographical site using a specific noun (a word that names a certain place, thing).	Credit River		1.0.0	1.0.0	1.0.0
			The latitude coordinates of the geographical location of sample	Provide latitude coordinates if available. Do not use the centre of the city/region/province/state/country or the location of your agency as a proxy, as this implicates a real location and is misleading. Specify as					
Sample collection and processing	geo_loc_latitude	GENEPIO:0100309	collection.	degrees latitude in format "d[d.dddd] N S". Provide longitude coordinates if available. Do not	38.98 N		1.0.0	1.0.0	1.0.0
Sample collection and processing	geo loc longitude	GENEPIO:0100310	The longitude coordinates of the geographical location of sample collection.	use the centre of the city/region/province/state/country or the location of your agency as a proxy, as this implicates a real location and is misleading. Specify as degrees longitude in format "d[dd.dddd] WIE".	77.11 W		1.0.0	1.0.0	1.0.0
				Provide the official nomenclature for the organism(s) present in the sample. Multiple organisms can be entered, separated by semicolons. Avoid abbreviations. Search for					
Sample collection and processing	organism	GENEPIO:0001191	Taxonomic name of the organism.	taxonomic names here: ncbi.nlm.nih.gov/taxonomy.	Vibrio cholerae		1.0.0	1.0.0	1.0.0
Sample collection and processing	influenza_subtype	GENEPIO:0101108					1.0.0	1.0.0	1.0.0
Sample collection and processing	influenza_subtyping_scheme_name	GENEPIO:0101109					1.0.0	1.0.0	1.0.0
Sample collection and processing	taxonomic_identification_process	GENEPIO:0100583					1.0.0	1.0.0	1.0.0
Sample collection and processing	virus_identifier	GENEPIO:0101110					1.0.0	1.0.0	1.0.0
	-								
Sample collection and processing	WHO/OIE/FAO_clade	GENEPIO:0101111					1.0.0	1.0.0	1.0.0
Comple collection and account	annie sellesties date	CENEDIO 2004-1	The date on which the sample was collected, or sampling began for a	If your sample is a continuous sample please use this field to capture your start date. Sample collection date is critical for surveillance and many types of analyses. Required granularity includes year, month and day. The date should be provided in ISO 8601 standard format	2020 00 40		100	100	100
Sample collection and processing Sample collection and processing	sample_collection_date sample received date	GENEPIO:0001174 GENEPIO:0001179	continuous sample. The date on which the sample was received.	"YYYY-MM-DD". Provide the sample received date in ISO 8601 fo	2020-03-16 r 2020-03-28		1.0.0	1.0.0	1.0.0
Sample collection and processing	sample processing date		The date on which the sample was processed.	Provide the sample processed data in ISO 8601 format, i.e. "YYYY-MM-DD". The sample may be collected and processed (e.g. filtered, extraction) on the same day, or on different dates.			1.0.0	1.0.0	1.0.0

The distriction and processing Column Colu			Ontology				Danvasated Label D	anyonated ID	Varcian		
Some defection and processing of the control of processing of the control of the	Parent Class	Field	Ontology Identifier	Definition	If a food product was sampled and the food product was manufactured outside of Canada, provide the name of the country where the food product originated by selecting a value from the template pick list. If the information is unknown	United States of America	Deprecated Laber D	eprecated ID	Tracking		
Particular control and processing of end process	Sample collection and processing	food product origin geo loc name (country)	GENEPIO:0100437	The country of origin of a food product.		9]			1.0.0	1.0.0	1.0.0
Provide any discontant discovering the section and processing on the section and processing of t	Sample collection and processing		GENEPIO:0100444		select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided,	[FOODON:000 03927]; Bone meal [ENVO:020000 54]; Chicken breast [FOODON:000			1.0.0	1.0.0	1.0.0
Sample collection and processing with the control of the control o	Sample collection and processing	food_product_properties	GENEPIO:0100445		including whether it has been cooked, processed, preserved, any known information about its state (e.g. raw, ready-to-eat), any known information about its containment (e.g. canned), and any information about a label claim	(chopped) [FOODON:000 02777]; Ready-to-eat (RTE) I [FOODON:033 16636]			1.0.0	1.0.0	1.0.0
Semple collection and processing CEMEPO0100415 And commented for this part of symbol within processing of the control of the part of the p											
A file content of the control and processing of College (2014) to the processing of the control of sets of the control of th	Sample collection and processing	food_packaging	GENEPIO:0100447	The type of packaging used to contain a food product.	food product was packaged.	[FOODON:034			1.0.0	1.0.0	1.0.0
Sample collection and processing on whorewardst_planks and processing on whorewardst_	Sample collection and processing	food_quality_date	GENEPIO:0100615		as "best if used by", best by", "use by", or "freeze by" e.g. 5/24/2020. If the date is known, leave blank or provide a null value.	2020-05-25			1.0.0	1.0.0	1.0.0
Sample collection and processing environmental_size GENEPIO.0001232 environmental_size GENEPIO.0001232 environmental_size GENEPIO.0001232 environmental_size are incommental_material continum may decrothe a size in the natural or but but because provided, separated by a semi-color. Sample collection and processing environmental_material GENEPIO.0001232 of the incommental_material or semi-color incommental_material or semi-color incommental_material incommental_material_					with, nor replaced by a Best Before date or other food quality date. If the date is known, leave						
Sample collection and processing environmental_size GENEPIO.001232 An environmental_location may describe a size in the natural or built provided, fullified values can be provided, separated by a semi-colon. Sample collection and processing environmental_material GENEPIO.001232 A substance obtained from the natural or man-made environment age. Sample collection and processing objection, method GENEPIO.001234 The instrument or container used to collect the sample or guitedion and processing collection and processing objection, method GENEPIO.001241 The process used to collect the sample or guitedion and processing sample collection and processing objection, method GENEPIO.001259 The instrument or container used to collect the sample or guitedion and processing sample collection and processing objection, method GENEPIO.001261 The instrument or container used to collect the sample or guitedion and processing sample collection and processing objection, method GENEPIO.001261 The instrument or container used to collect the sample or guitedion and processing sample collection and processing sample volume, measurement, value GENEPIO.001269 GENEPIO.001269 The units of the volume measurement of the sample collection. The units of the volume measurement of the sample collection. Provide the numerical value of volume. Sample collection and processing sample volume, measurement, unit GENEPIO.01010769 The units of the volume measurement of the sample collected. Provide the numerical value of volume. Sample collection and processing sample volume, measurement, unit GENEPIO.01010769 The units of the volume measurement of the sample collected. Provide the numerical value of volume. Sample collection and processing sample volume, measurement, unit GENEPIO.01010769 The units of the volume measurement of the sample collected. Provide the numerical value of volume. Sample collection and processing sample volume, measurement, unit GENEPIO.01010769 The units of the residual sample	Sample collection and processing	food_packaging_date	GENEPIO:0100616	retailer.					1.0.0	1.0.0	1.0.0
Sample collection and processing Sample	Sample collection and processing	environmental_site	GENEPIO:0001232	An environmental location may describe a site in the natural or built environment e.g. hospital, wet market, bat cave.	ontology ID for the environmental site from the picklist provided. Multiple values can be	hatchery [ENVO:010018 74]			1.0.0	1.0.0	1.0.0
The field includes arimst feed. If applicable, select the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the antidomical material from the provided. Separate the standardized farm and ontology ID for the provid	Sample collection and processing	environmental malerial	GENEPIO:0001223		ontology ID for the environmental material from the picklist provided. Multiple values can be	[ENVO:000019 98]; Water [CHEBI:15377]; Wastewater [ENVO:000020 01]; Broom [ENVO:035013			100	100	100
Sample collection and processing collection and processing sample_volume_measurement_value GENEPIO.001241 The process used to collect the sample e.g. philebotomy, necropsy. The numerical value of the volume measurement of the sample collection and processing sample_volume_measurement_value GENEPIO.0100768 The numerical value of the volume measurement of the sample collection and processing sample_volume_measurement_unit GENEPIO.0100769 The units of the volume measurement of the sample collected. Sample collection and processing residual_sample_sates sample_status of the residual sample (whether any sample remains after the sample material was used for its original use). The status of the residual sample (whether any sample remains after the sample material was used for its original states, yellow) from the pick list. If the sample material was used for its original states, yellow collected may differ from the reason why it was sample from the pick list. If the sample material was used for its original states, yellow collected may differ from the reason why it was sample from the pick list. If sample state sample left its parts that its parts that its picklible health in formation about potential biases in sampling states, yellow collected may differ from the reason why it was sample from the measurement, with its parts that the sample from the measurement which it in formation about potential biases in sampling states, yellow collected may differ from the reason why it was selected from sevenore, which its was selected from		collection device		·	This field includes animal feed. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided,	Drag swab				100	1.0.0
Sample collection and processing sample_volume_measurement_value GENEPIC-0100768 The numerical value of the volume measurement of the sample collected. Provide the numerical value of volume. 5 1.0.0 1.0.0 1.0 Imagilitier (mL) William (mL) Residual sample state samples that remain after the sample apurpose. Select a residual sample status of the residual sample (whether any sample remains after its soriginal purpose. Select a residual sample status of the residual sample (whether any sample remains after its soriginal use). Sample collection and processing The units of the volume measurement of the sample collected. Provide the units from the pick list. [U.0.0000098] 1.0.0 1.0.0 1.0 Sample collection and processing ample state remain after the sample material was used for its original purpose. Select a residual sample status or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample still exists, select 'Residual sample state or the picklist. If sample state or the		_			If applicable, provide the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be	Rinsing for specimen collection [GENEPIO_00					1.0.0
Sample collection and processing sample_volume_measurement_value GENEPIO:0100768 collected. Provide the numerical value of volume. 5 1.0.0											
Sample collection and processing sample _volume_measurement_unit	Sample collection and processing	sample_volume_measurement_value	GENEPIO:0100768		Provide the numerical value of volume.	5	1		1.0.0	1.0.0	1.0.0
Residual samples are samples that remain after the sample material was used for its original purpose. Select a residual sample the picklist. If sample status from the picklist is the template. Most likely the sample was collected for Public health surveillance. The reason why it was selected for sequencing, which						milliliter (mL)					
Residual samples are samples that remain after the sample material was used for significant purpose. Select a residual sample status for the residual sample (whether any sample remains after the sample material was used for significant purpose. Select a residual sample status for the picklist. If sample still exists, select "Residual (GENEPIC-010 to original use). The status of the residual sample (whether any sample remains after its the sample status from the picklist. If sample still exists, select "Residual (GENEPIC-010 to original use). The reason a sample was collected may provide information about potential biases in sampling strategy. Provide the purpose of sampling from the picklist in the template. Most likely, the sample was collected may originally collected for sequencing, which	Sample collection and processing	sample_volume_measurement_unit	GENEPIO:0100769	The units of the volume measurement of the sample collected.	Provide the units from the pick list.				1.0.0	1.0.0	1.0.0
information about potential biases in sampling strategy. Provide the purpose of sampling from the picklist in the template. Most likely, the sample was collected for Public health surveillance. The reason why a sample was originally offer from the reason why a sample was originally offer from the reason why it was selected may differ from the reason why it was selected for sequencing.	Sample collection and processing	residual_sample_status	GENEPIO:0101090		the sample material was used for its original purpose. Select a residual sample status from the picklist. If sample still exists, select "Residual sample remaining (some sample left)".	sample (sample all used) I [GENEPIO:010 1088]			1.0.0	1.0.0	1.0.0
	Sample collection and processing	purpose of sampling	GENEPIO:0001198	The reason that the sample was collected.	information about potential biases in sampling strategy. Provide the purpose of sampling from the picklist in the template. Most likely, the sample was collected for Public health surveillance. The reason why a sample was originally collected may differ from the reason why it was selected for sequencing, which should be indicated in the "purpose of	Public health			1.0.0	1.0.0	1.0.0

Parent Class	Field	Ontology Identifier	Definition	Outdown		Deprecated Label Deprecate	d ID Version Tracking		
			Bellillaon	Guidance	Examples				
Sample collection and processing	presampling activity	GENEPIO:0100433	The activities or variables upstream of sample collection that may affect the sample.	If there was an activity that would affect the sample prior to collection (this is different than sample processing), provide the activities by selecting one or more values from the template pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.	Agricultural activity		1.0.0	1.0.0	1.0.0
			The details of the activities or variables that affected the sample	Briefly describe the presampling activities using	Agricultural waste from large farm contributes waste to the				
Sample collection and processing	presampling activity details	GENEPIO:0100434	collected.	Provide details of how the sample was stored from time of collection until time of processing. If there were issues with the cold chain storage,	site sampled. The sample was placed in a tube in a cooler bag during transportation (~3 hours) to the lab site. At this point the sample was placed in storage medium and put in a -10C freezer until it was processed and extracted 5		1.0.0	1.0.0	1.0.0
Sample collection and processing Sample collection and processing	sample storage method sample storage medium	GENEPIO:0100448 GENEPIO:0100449	The process used to store the sample. The medium in which a sample is stored.	note those here. Provide the name of the transport medium or storage medium used for this sample. If none was used, leave blank or write "None".	days later. Cary-Blair transport medium		1.0.0	1.0.0	1.0.0
			The numerical value of the time measurement during which a sample is						
Sample collection and processing Sample collection and processing	sample storage duration value sample storage duration unit	GENEPIO:0101014 GENEPIO:0101015	in storage. The units of a measured sample storage duration.	Provide the numerical value of time. Provide the units from the pick list.	Day		1.0.0	1.0.0	1.0.0
Sample collection and processing	specimen processing	GENEPIO:0001253	Any processing applied to the sample during or after receiving the sample.	Select processes from the picklist that were applied to this sample.	Centrifugation		1.0.0	1.0.0	1.0.0
			The details of the processing applied to the sample during or after	Briefly describe the processes applied to the	25 samples were pooled and further prepared as a single sample during library				
Sample collection and processing Sample collection and processing	specimen processing details experimental protocol field	GENEPIO:0100311 GENEPIO:0101029	receiving the sample. The name of the overarching experimental methodology that was used to process the biomaterial.	sample. Provide the name of the methodology used in your study. If available, provide a link to the protocol.	prep.		1.0.0	1.0.0	1.0.0
				Samples can play different types of roles in experiments. A sample under study in one experiment may act as a control or be a replicate of another sample in another experiment. This field is used to distinguish samples under study from controls, replicates, etc. If the sample acted as an experimental control or a replicate, select a role type from the pictilist. If the sample	Positive				
Sample collection and processing	experimental specimen role type	GENEPIO:0100921	The type of role that the sample represents in the experiment.	was not a control, leave blank or select "Not Applicable".	experimental control		1.0.0	1.0.0	1.0.0
Sample collection and processing	experimental specimen details	GENEPIO:0101112					1.0.0	1.0.0	1.0.0
Sample collection and processing	available_data_types	GENEPIO:0100690	The type of data that is available, that may or may not require permission to access.	This field provides information about additional data types that are available that may provide context for interpretation of the sequence data. Provide a term from the picklist for additional data types that are available. Additional data types may require special permission to access. Contact the data provider for more information.	Total coliform count [GENEPIO:010 0729]		1.0.0	1.0.0	1.0.0

		Ontology Identifier				Deprecated Label Deprecated	D Version		
Parent Class	Field	Identifier	Definition	Guidance	Examples		Tracking		
Sample collection and processing	available_data_type_details	GENEPIO:0101023	Detailed information regarding other available data types.	Use this field to provide free text details describing other available data types that may provide context for interpreting genomic sequence data.	Pooled metagenomes containing extended spectrum beta-lactamase (ESBL) bacteria		1.0.0	1.0.0	1.0.0
	Sequence information	GENEPIO:0001441							
Sequence information	library_ID	GENEPIO:0001448	The user-specified identifier for the library prepared for sequencing.	Every "library ID" from a single submitter must be unique. It can have any format, but we suggest that you make it concise, unique and consistent within your lab, and as informative as possible.	123446		1.0.0	1.0.0	1.0.0
Sequence information	sequencing_assay_type	GENEPIO:0100997	The overarching sequencing methodology that was used to determine the sequence of a biomaterial.	Example Guidance: Provide the name of the DNA or RNA sequencing technology used in your study. If unsure refer to the protocol documentation, or provide a null value.	whole genome sequencing assay [OBI:0002117]		1.0.0	1.0.0	1.0.0
Sequence information Sequence information	sequencing date purpose of sequencing	GENEPIO:0001447 GENEPIO:0001445	The date the sample was sequenced. The reason that the sample was sequenced.	ISO 8601 standard "YYYY-MM-DD". The reason why a sample was originally collected may differ from the reason why it was selected for sequencing. The reason a sample was sequenced may provide information about potential biases in sequencing strategy. Provide the purpose of sequencing from the picklist in the template. The reason for sample collection should be indicated in the "purpose of sampling" field.	2020-06-22 Travel-associat ed surveillance		1.0.0	1.0.0	1.0.0
Sequence information	purpose of sequencing details	GENEPIO:0001446	The description of why the sample was sequenced providing specific details.	Provide an expanded description of why the sample was sequenced using free text. The description may include the importance of the sequences for a particular public health investigation/surveillance activity/research question. Suggested standardized descriptions include: Assessing public health control measures, Determining early introductions and spread, Investigating aritine-related exposures, Investigating remote regions, Investigating health care workers, Investigating schools/universities.	Investigating schools/univers ities		1.0.0	1.0.0	1.0.0
Sequence information	sequenced_by	GENEPIO:0100416	The name of the agency, organization or institution responsible for sequencing the isolate's genome.	Provide the name of the agency, organization or institution that performed the sequencing in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Public Health Agency of Canada (PHAC) [GENEPIO:010 0551]		1.0.0	1.0.0	1.0.0
Sequence information	sequenced by laboratory name	GENEPIO:0100470	The specific laboratory affiliation of the responsible for sequencing the isolate's genome.	Provide the name of the specific laboratory that that performed the sequencing in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a nul value.	Topp Lab		1.0.0	1.0.0	1.0.0
Sequence information	sequenced by contact name	GENEPIO:0100471	The name or title of the contact responsible for follow-up regarding the sequence.	Provide the name of an individual or their job title. As personnel tumover may render the contact's name obsolete, it is more prefereable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.	Enterics Lab Manager		1.0.0	1.0.0	1.0.0
·			The email address of the contact responsible for follow-up regarding the	Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more prefereable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot	enterics@lab.c				
Sequence information Sequence information	sequenced_by_contact_email sequence submitted by	GENEPIO:0100422 GENEPIO:0001159	sequence. The name of the agency that submitted the sequence to a database.	be provided, leave blank or provide a null value. The name of the agency should be written out in full, (with minor exceptions) and be consistent across multiple submissions. For Canadian institutions submitting specimens rather than sequencing data, please put the "National Microbiology Laboratory (NML)".			1.0.0	1.0.0	1.0.0
Sequence information	sequence submitter contact email	GENEPIO:0001165	The email address of the contact responsible for follow-up regarding the sequence.		RespLab@lab.		1.0.0	1.0.0	1.0.0

		Ontology Identifier			Deprecated Label	Deprecated ID	Version		
Parent Class	Field	Identifier	Definition	Guidance	Examples Direct wastewater		Tracking		
					RNA capture and purification				
					via the "Sewage, Salt, Silica and				
					SARS-CoV-2 (4S)" method				
					v4 found at https://www.pro tocols.io/view/v				
					-4-direct-waste water-rna-captu				
Comple callection and processing	nucleic acid extraction method	GENEPIO:0100939	The average used to extract reports material from a country	Driefly describe the outrestion method used	re-and-purificati on-36wgq581y qk5/v4		1.0.0	1.0.0	1.0.0
Sample collection and processing	nucieic acid extraction metrod	GENEPIO.0100939	The process used to extract genomic material from a sample.	Briefly describe the extraction method used.	QIAamp		1.0.0	1.0.0	1.0.0
Sample collection and processing	nucleic acid extraction kit	GENEPIO:0100772	The kit used to extract genomic material from a sample	Provide the name of the genomic extraction kit used.	PowerFecal Pro DNA Kit		1.0.0	1.0.0	1.0.0
				Provide the names of endogenous controls that were used as a reference during extraction. If relevant, include titers of these controls, as well					
Sample collection and processing	endogenous control details	GENEPIO:0100923	The description of the endogenous controls included when extracting a sample.				1.0.0	1.0.0	1.0.0
_				Provide the name of the project and/or the project ID here. If the information is unknown or					
Sequence information	sequencing_project_name	GENEPIO:0100472	The name of the project/initiative/program for which sequencing was performed.	cannot be provided, leave blank or provide a null value. Provide the name of the company that created	(PA-1356)		1.0.0	1.0.0	1.0.0
				the sequencing instrument by selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or	Illumina [GENEPIO:000				
Sequence information	sequencing_platform	GENEPIO:0100473	The platform technology used to perform the sequencing.	provide a null value. Provide the model sequencing instrument by	1923] Illumina HiSeq		1.0.0	1.0.0	1.0.0
Sequence information	sequencing instrument	GENEPIO:0001452	The model of the sequencing instrument used.	selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.	2500 [GENEPIO:010 0117]		1.0.0	1.0.0	1.0.0
			·						
Sequence information							1.0.0	1.0.0	1.0.0
			The name of the DNA library preparation kit used to generate the library	Provide the name of the library preparation kit					
Sequence information	library_preparation_kit	GENEPIO:0001450	being sequenced.	used.	Nextera XT		1.0.0	1.0.0	1.0.0
Sequence information	DNA fragment length	GENEPIO:0100843	The length of the DNA fragment generated by mechanical shearing or enzymatic digestion for the purposes of library preparation.	Provide the fragment length in base pairs (do not include the units).	400		1.0.0	1.0.0	1.0.0
					Hybrid selection method				
Sequence information	genomic target enrichment method	GENEPIO:0100966	The molecular technique used to selectively capture and amplify specific regions of interest from a genome.	Provide the name of the enrichment method	(bait-capture) [GENEPIO:000 1950]		1.0.0	1.0.0	1.0.0
ocquerice information	genome target emeliment medica	GENETIO:0100300	specific regions of interest from a genome.	Trovide the finance of the efficient file and	enrichment was done using		1.0.0	1.0.0	1.0.0
					Twist's respiratory virus research				
					panel: https://www.twi				
			Details that provide additional context to the molecular technique used	Provide details that are applicable to the method you used. Note: If bait-capture methods were used for enrichment, provide the panel name	stbioscience.co m/products/ngs /fixed-panels/re				
Sequence information	genomic target enrichment method details	GENEPIO:0100967	to selectively capture and amplify specific regions of interest from a genome.	and version number (or a URL providing that information).	spiratory-virus-r esearch-panel		1.0.0	1.0.0	1.0.0
			The specifications of the primers (primer sequences, binding positions, fragment size generated etc) used to generate the amplicons to be	Provide the name and version of the primer scheme used to generate the amplicons for					
Sequence information	amplicon pcr primer scheme	GENEPIO:0001456	sequenced.	sequencing.	artic v3		1.0.0	1.0.0	1.0.0
Sequence information	amplicon size	GENEPIO:0001449	The length of the amplicon generated by PCR amplification.	Provide the amplicon size expressed in base pairs.	300		1.0.0	1.0.0	1.0.0
,	- - - - - - - - - -		5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				,		

D (0)		Ontology	B 6 W	0.11		Deprecated Label	Deprecated ID	Version Tracking		
Parent Class	Field	ldentifier	Definition	Guidance Flow cells can vary in terms of design, chemistry capacity, etc. The version of the flow cell used to generate sequence data can affect sequence quantity and quality. Record the version of the	Examples			Hacking		
Sequence information	sequencing flow cell version	GENEPIO:0101102	The version number of the flow cell used for generating sequence data.	flow cell used to generate sequence data. Do not include "version" or "v" in the version number.	R.9.4.1			1.0.0	1.0.0	1.0.0
				Provide the name and version of the procedure or protocol used for sequencing. You can also	https://www.pro tocols.io/view/n cov-2019-sequ encing-protocol -bbmuik6w?ver sion warning=n					
Sequence information	sequencing_protocol	GENEPIO:0001454	The protocol or method used for sequencing.	provide a link to a protocol online.	Q			1.0.0	1.0.0	1.0.0
Sequence information	r1_fastq_filename	GENEPIO:0001476	The user-specified filename of the r1 FASTQ file.	Provide the r1 FASTQ filename.	ABC123_S1_L 001_R1_001.fa stq.gz			1.0.0	1.0.0	1.0.0
Sequence information	r2_fastq_filename	GENEPIO:0001477	The user-specified filename of the r2 FASTQ file.	Provide the r2 FASTQ filename.	ABC123_S1_L 001_R2_001.fa stq.gz			1.0.0	1.0.0	1.0.0
					batch1a_seque					
Sequence information	fast5_filename	GENEPIO:0001480	The user-specified filename of the FAST5 file.	Provide the FAST5 filename.	nces.fast5			1.0.0	1.0.0	1.0.0
Sequence information	consensus_sequence_filename	GENEPIO:0101119						1.0.0	1.0.0	1.0.0
Sequence information	assembly_filename	GENEPIO:0001461	The user-defined filename of the FASTA file.	Provide the FASTA filename.	pathogenasse mbly123.fasta			1.0.0	1.0.0	1.0.0
	Bioinformatics and QC metrics	GENEPIO:0001457								
Bioinformatics and QC metrics	quality control method name		The name of the method used to assess whether a sequence passed a predetermined quality control threshold.	Providing the name of the method used for quality control is very important for interpreting the rest of the QC information. Method names can be provided as the name of a pipeline or a link to a Gilthub repository. Multiple methods should be listed and separated by a semi-colon. Do not include QC tags in other fields if no method name is provided.	ncov-tools			1.0.0	1.0.0	1.0.0
Bioinformatics and QC metrics	quality control method version	GENEPIO:0100558	The version number of the method used to assess whether a sequence passed a predetermined quality control threshold.	Methods updates can make big differences to their outputs. Provide the version of the method used for quality control. The version can be expressed using whatever convenion the developer implements (e.g. date, semantic versioning). If multiple methods were used, record the version numbers in the same order as the method names. Separate the version numbers up a semi-colon transpar.	1.2.3			1.0.0	1.0.0	1.0.0
				Select a value from the pick list provided. If a desired value is missing, submit a new term						
Bioinformatics and QC metrics	quality control determination	GENEPIO:0100559	The determination of a quality control assessment.		sequence failed quality control			1.0.0	1.0.0	1.0.0
Bioinformatics and QC metrics	quality control issues	GENEPIO:0100560	The reason contributing to, or causing, a low quality determination in a quality control assessment.	Select a value from the pick list provided. If a desired value is missing, submit a new term request to the PHA4GE QC Tag GilHub issuetracker using the New Term Request form.	low average genome coverage			1.0.0	1.0.0	1.0.0
Pioinformatics and CO metric	quality control details	CENIFDIO 0400504	The details surrounding a low quality determination in a quality control	Provide notes or details regarding QC results	CT value of 39. Low viral load. Low DNA concentration after			100	100	100
Bioinformatics and QC metrics Bioinformatics and QC metrics	quality control details	GENEPIO:0100561 GENEPIO:0001458	assessment. The method used for raw data processing such as removing barcodes, adopter tripmping filtering data.	using free text. Raw data processing can have a significant impact on data quality and how it can be used. Provide the names and version numbers of software usef for trimming adaptors, quality filtering, etc (e.g. Trimmomatic v. 0.38, Porechop v. 0.2.3), or a link to a Silthub protocol.	amplification. Porechop 0.2.3			1.0.0	1.0.0	1.0.0
	raw sequence data processing method		adapter trimming, filtering etc.	Provide the name and version number of the						
Bioinformatics and QC metrics	dehosting method	GENEPIO:0001459	The method used to remove host reads from the pathogen sequence.	software used to remove host reads.	Nanostripper			1.0.0	1.0.0	1.0.0

ld	Identifier	Definition	Guidance	Examples		Tracking		
			Provide the name of the software used to	SPAdes Genome Assembler, Canu, wtdbg2,				
uence assembly software name	GENEPIO:0100825	The name of the software used to assemble a sequence.	assemble the sequence.	velvet		1.0.0	1.0.0	1.0.0
			Provide the version of the software used to					
uence assembly software version	GENEPIO:0100826	The version of the software used to assemble a sequence.	assemble the sequence.	3.15.5		1.0.0	1.0.0	1.0.0
sensus sequence software name	GENEPIO:0001463	The name of the software used to generate the consensus sequence.	Provide the name of the software used to generate the consensus sequence.	iVar		1.0.0	1.0.0	1.0.0
sensus sequence software version	GENEPIO:0001469	The version of the software used to generate the consensus sequence.	Provide the version of the software used to generate the consensus sequence.	1.3	3	1.0.0	1.0.0	1.0.0
adth of coverage value	GENEPIO:0001472	The percentage of the reference genome covered by the sequenced data, to a prescribed depth.	Provide value as a percent.	95	5	1.0.0	1.0.0	1.0.0
			·					
th of coverage value	GENEPIO:0001474	The average number of reads representing a given nucleotide in the reconstructed sequence.	Provide value as a fold of coverage.	400		1.0.0	1.0.0	1.0.0
th of coverage threshold	GENEPIO:0001475	The threshold used as a cut-off for the depth of coverage.	Provide the threshold fold coverage.	100		1.0.0	1.0.0	1.0.0
ome completenese	GENEDIO:0100844	The percentage of expected genes identified in the genome being sequenced. Missing genes indicate missing genomic regions (incompleteness) in the detail.	Provide the genome completeness as a percent	98		100	100	1.0.0
one completeness	GENEFIO.0100044	(incompleteness) in the data.	(no need to include units).	00	,	1.0.0	1.0.0	1.0.0
nber of base pairs sequenced	GENEPIO:0001482	The number of total base pairs generated by the sequencing process.	Provide a numerical value (no need to include units).	387566	3	1.0.0	1.0.0	1.0.0
nber of total reads	GENEPIO:0100827	The total number of non-unique reads generated by the sequencing process.	Provide a numerical value (no need to include units).	423867		1.0.0	1.0.0	1.0.0
nber of unique reads	GENEPIO:0100828	The number of unique reads generated by the sequencing process.	Provide a numerical value (no need to include units).	248236	3	1.0.0	1.0.0	1.0.0
imum nost-trimming read length	GENEPIO:0100829	The threshold used as a cut-off for the minimum length of a read after	Provide a numerical value (no need to include units)	150		100	100	1.0.0
intum post-timining read length	OENET 10.0100023		unia).	100		1.0.0	1.0.0	1.0.0
nber of contigs	GENEPIO:0100937	The number of contigs (contiguous sequences) in a sequence assembly.	Provide a numerical value.	10		1.0.0	1.0.0	1.0.0
cent Ns across total genome length	GENEPIO:0100830	The percentage of the assembly that consists of ambiguous bases (Ns).	Provide a numerical value (no need to include units).	2	2	1.0.0	1.0.0	1.0.0
per 100 kbp	GENEPIO:0001484	The number of ambiguous bases (Ns) normalized per 100 kilobasepairs (kbp).	Provide a numerical value (no need to include units).	342		1.0.0	1.0.0	1.0.0
	GENEPIO:0100938	The length of the shortest read that, together with other reads, represents at least 50% of the nucleotides in a set of sequences.	Provide the N50 value in Mb.	150		1.0.0	1.0.0	1.0.0
cent read contamination	GENEPIO:0100845	The percent of the total number of reads identified as contamination (not belonging to the target organism) in a sequence dataset	Provide the percent contamination value (no need to include units)	,		1.0.0	100	1.0.0
, , , , , , , , , , , , , , ,								
uence assembly length	GENEPIO:0100846	scaffold or by reference-based mapping.	units).	34272		1.0.0	1.0.0	1.0.0
sensus genome length	GENEPIO:0001483	The length of the genome defined by the most common nucleotides at each position.	Provide a numerical value (no need to include units).	38677	,	1.0.0	1.0.0	1.0.0
rence genome accession	GENEPIO:0001485	A persistent, unique identifier of a genome database entry	Provide the accession number of the reference genome.	NC 045512.2		1.0.0	1.0.0	1.0.0
s s a t t c n n n ii	th of coverage value h of coverage value h of coverage threshold me completeness ber of base pairs sequenced ber of total reads ber of unique reads mum post-trimming read length ber of contigs ent Ns across total genome length ent read contamination sence assembly length	tensus sequence software name GENEPIO.0001463 GENEPIO.0001469 GENEPIO.0001472 GENEPIO.0001474 GENEPIO.0001474 GENEPIO.0001475 GENEPIO.0001475 GENEPIO.0001475 GENEPIO.0001475 GENEPIO.0001482 GENEPIO.0001482 GENEPIO.0100827 GENEPIO.0100828 GENEPIO.0100829 GENEPIO.0100829 GENEPIO.0100830 GENEPIO.0100830 GENEPIO.0100830 GENEPIO.0100836 GENEPIO.0100836 GENEPIO.0100836 GENEPIO.0100846 GENEPIO.0100846 GENEPIO.0100846	GENEPIC-0001483 The name of the software used to generate the consensus sequence. GENEPIC-0001499 The version of the software used to generate the consensus sequence. The percentage of the reference genome covered by the sequenced data, it is prescribed depth. The average number of reads representing a given nucleotide in the reconstructed sequence. GENEPIC-0001472 The the percentage of expected genes identified in the genome being sequenced. Missing genes indicate missing genomic regions (excomplateness) in the data. GENEPIC-0001482 The percentage of expected genes identified in the genome being sequenced. Missing genes indicate missing genomic regions (excomplateness) in the data. GENEPIC-0100844 The number of total base pairs generated by the sequencing process. The total number of non-unique reads generated by the sequencing process. The threshold used as a cut-off for the minimum length of a read after tramming. The number of unique reads generated by the sequencing process. The threshold used as a cut-off for the minimum length of a read after tramming. GENEPIC-0100829 The number of unique reads generated by the sequencing process. The threshold used as a cut-off for the minimum length of a read after tramming. The number of configs (configuous sequences) in a sequence assembly and the confidence of ambiguous bases (No.) The number of ambiguous bases (No.) normalized per 100 kilobasepairs (Exp.) GENEPIC-0100839 The length of the shortest read that, together with other reads represents at least 50% of the nucleotides in a set of sequences. The length of the genome generated by assembling reads using a scaffold or by reference-based mapping. The length of the genome defined by the most common nucleotides at each position.	GENEPIO 0101433 The name of the software used to generate the consensus sequence. GENEPIO 0001443 The version of the software used to generate the consensus sequence. Provide the name of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. 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Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the consensus sequence. Provide the version of the software used to generate the provide in the generate the provide t	annum sequence software name GENEPIO.0001469. The name of the software used to generate the consensus sequence. GENEPIO.0001469 The version of the software used to generate the consensus sequence. GENEPIO.0001460 The version of the software used to generate the consensus sequence. The personal part of an influence personal coverad by the sequenced of the software used to generate the consensus sequence. 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GENEPIO.0001492 The number of foor unique reads generated by the sequencing process. The bold number of foor unique reads generated by the sequencing process. The bold number of foor unique reads generated by the sequencing process. The threshold used as a cut-off for the minimum length of a read after threshold stude (no need to include units). The threshold used as a cut-off for the minimum length of a read after threshold stude. The threshold used as a cut-off for the minimum length of a re	SCHEPTO-000143 The name of this software under the	actives sequence coffware version CELEPTOLOGISTAL The reservor of the orthware used to generate the configure control to extinue used to generate the control to resolute the resolute th	entions sequence software name GENEPO0001497 The service of the entioners used to generate the consensus sequence software name GENEPO0001497 The service of the entioners used to generate the consensus sequence software viriation GENEPO0001497 The service of the entioners used to generate the consensus sequence software used to generate the consensus sequences of the security of the sequence of the sequences of the consensus sequences and the consensus sequences software used to generate the consensus sequences of the sequences o

		Ontology				Deprecated Label De	eprecated ID	Version		
Parent Class	Field	Identifier	Definition	Guidance	Examples	.,	-,	Tracking		
Bioinformatics and QC metrics	deduplication method	GENEPIO:0100831	The method used to remove duplicated reads in a sequence read dataset.	Provide the deduplication software name followed by the version, or a link to a tool or method.	DeDup 0.12.8			1.0.0	1.0.0	1.0.0
Bioinformatics and QC metrics	bioinformatics protocol	GENEPIO:0001489	A description of the overall bioinformatics strategy used.	Further details regarding the methods used to process raw data, and/or generate assemblies, and/or generate assemblies, and/or generate consensus sequences can. This information can be provided in an SOP or protocol or pipeline/workflow. Provide the name and version number of the protocol, or a GitHub link to a pipeline or workflow.	https://github.c om/phac-nml/n			1.0.0	1.0.0	1.0.0
	Taxonomic identification information	GENEPIO:0101082								
			The name of the software used to map sequence reads to a reference		Bowtie2, BWA-MEM,					
Taxonomic identification information	read mapping software name	GENEPIO:0100832	genome or set of reference genes.	Provide the name of the read mapping software.	TopHat			1.0.0	1.0.0	1.0.0
Taxonomic identification information	read mapping software version	GENEPIO:0100833	The version of the software used to map sequence reads to a reference genome or set of reference genes.	Provide the version number of the read mapping software.	2.5.1			1.0.0	1.0.0	1.0.0
Taxonomic identification information	taxonomic reference database name	GENEPIO:0100834	The name of the taxonomic reference database used to identify the organism.	Provide the name of the taxonomic reference database.	NCBITaxon			1.0.0	1.0.0	1.0.0
Taxonomic identification information	taxonomic reference database version	GENEPIO:0100835	The version of the taxonomic reference database used to identify the organism.	Provide the version number of the taxonomic reference database.	1.3			1.0.0	1.0.0	1.0.0
Taxonomic identification information	taxonomic analysis report filename	GENEPIO:0101074	The filename of the report containing the results of a taxonomic analysis.	Provide the filename of the report containing the results of the taxonomic analysis.	WWtax_report_ Feb1_2024.doc			1.0.0	1.0.0	1.0.0
Taxonomic identification information	taxonomic analysis date	GENEPIO:0101075	The date a taxonomic analysis was performed.	Providing the date that an analyis was performed can help provide context for tool and reference database versions. Provide the date that the taxonomic analysis was performed in ISO 8601 format, i.e. "YYYY-MM-DD".	2024-02-01			1.0.0	1.0.0	1.0.0
Taxonomic Identification mornador	taxonomic analysis date	GENETIO:0101073	The date a taxonome analysis was performed.	Provide a description of the read mapping	Phred score			1.0.0	1.0.0	1.0.0
Taxonomic identification information	read mapping criteria	GENEPIO:0100836	A description of the criteria used to map reads to a reference sequence.	criteria.	>20			1.0.0	1.0.0	1.0.0
	Pathogen diagnostic testing	GENEPIO:0001506								
Pathogen diagnostic testing	genetic target name	GENEPIO:0101116	The name of the genetic marker used for testing.	Provide the full name of the gene used in the test. Standardized gene names can be found in the Gene Ontology using this look-up service; https://bit.ly/2Sq1Lbi	gyrase A			1.0.0	1.0.0	1.0.0
, autogon diagnostic teating	gonoto ta got namo	OLINE, IO.O IOTIIO	The hamb of the general market access of tooling.	INSO/IDIA/YIZO(IZD)	gjiddori			1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	genetic target region	GENEPIO:0101117						1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	genetic target region reference genome	GENEPIO:0101118						1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	diagnostic target presence	GENEPIO:0100962	The binary value of the result from a diagnostic test.	Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample.	diagnostic target present			1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	diagnostic measurement value	GENEPIO:0100963	The value of the result from a diagnostic test.	Provide the numerical result of a diagnostic test (no need to include units).	1000			1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	diagnostic measurement unit	GENEPIO:0100964	The unit of the result from a diagnostic test.	Select a value from the pick list provided, to describe the units of the given diagnostic test.	cycle threshold (Ct)			1.0.0	1.0.0	1.0.0
i aurogoti ulagriostic testing	anghoste measurement unit	GENEFIO.0100904	The unit of the result from a diagnostic test.	Select a value from the pick list provided to describe the method used for a given diagnostic				1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	diagnostic measurement method	GENEPIO:0100965	The method by which a diagnostic result was determined.	test.	qPCR			1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	diagnostic testing threshold value	GENEPIO:0101104						1.0.0	1.0.0	1.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
Pathogen diagnostic testing	diagnostic testing threshold units	GENEPIO:0101105						1.0.0	1.0.0	1.0.0
Pathogen diagnostic testing	diagnostic testing details	GENEPIO:0101106						1.0.0	1.0.0	1.0.0
Risk assessment information	Risk assessment information	GENEPIO:0100478	Metrics regarding the prevalence of the pathogen of interest obtained from a surveillance project.	Risk assessment requires detailed information regarding the quantities of a pathogen in a specified location, commodity, or environment. As such, it is useful for risk assessors to know what types of information are available through documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected," "Number of positive samples," "Average count of hazard organism," You do not need to provide the actual values, just indicate that the information is available.	Number of total samples collected, Number of positive samples			1.0.0	1.0.0	1.0.0
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	The details pertaining to the prevalence metrics from a surveillance project.	If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars.			1.0.0	1.0.0	1.0.0
Risk assessment information	stage_of_production	GENEPIO:0100482	The stage of food production.	Provide the stage of food production as free text In some surveys, a particular intervention in the food supply chain in studied. If there was an	[ENVO:010009			1.0.0	1.0.0	1.0.0
Risk assessment information	experimental_intervention	GENEPIO:0100483	The category of the experimental intervention applied in the food production system.	intervention specified in the sample plan, select the intervention category from the pick list provided.	Vaccination [NCIT:C15346]			1.0.0	1.0.0	1.0.0
Risk assessment information	experiment_intervention_details	GENEPIO:0100484	The details of the experimental intervention applied in the food production system.	If an experimental intervention was applied in the survey, provide details in this field as free text.	2% cranberry solution mixed in feed			1.0.0	1.0.0	1.0.0