		Ontology				Deprecated Label Deprecated ID	Version		Editor	Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples		Tracking		Zaitoi	10100
	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			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 suggest that you make it concise, unique and						
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		1.0.0	1.0.0	1.0.0	
				pooling individual samples, rename the pooled						
Database identifiers	pooled_sample_ID	GENEPIO:0100996	The user-defined identifier assigned to a combined (pooled) set of samples.	sample with a new identifier. Store the pooled sample ID.	12345AYZ		1.0.0	1.0.0	1.0.0	
	a_campro_ro	02.12110.0100390		Store the ID for the site from which a sample	.2010/11/2		7.0.0	1.0.0		
				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.						
			The user-defined identifier assigned to a specific location from which	Any important changes in site location, should						
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	Site 12A		1.0.0	1.0.0	1.0.0	
				or samples were taken. For example, an event						
			The user-defined identifier assigned to a specific event during which	could be one person taking samples from multiple sites, or multiple people taking samples						
Database identifiers	sampling_event_ID	GENEPIO:0100761	one or more samples are taken, from one or more sites.	from one site.	Event 120522.1		1.0.0	1.0.0	1.0.0	
				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						
			The INSDC (i.e., ENA, NCBI, or DDBJ) accession number of the	PRJN e.g., PRJNA12345, and is created once at						
Database identifiers	BioProject_accession	GENEPIO:0001136	BioProject(s) to which the BioSample belongs.	the beginning of a new sequencing project. Store the accession returned from the	PRJNA608651 SAMN1418020		1.0.0	1.0.0	1.0.0	
				BioSample submission. NCBI BioSamples will	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 Identifier	Biodanipio_docodoion	OLIVEI IO.SOUTIO	2550) (10.11105)	or there, as so have or this			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,	Store the accession assigned to the submitted						
			methodological metadata and quality control metrics submitted to the	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	LIVI_accession	GENEFIO.0100/55	Priority (LIVY).	LINC	LINI IZO400		1.0.0	1.0.0	1.0.0	
			The identifier assigned to a sequence in DNA Data Bank of Japan	Store the accession assigned to the submitted						
Database identifiers	DRA_accession	GENEPIO:0100757	(DDBJ) sequence read archives.	sequence. DRA accessions start with DRR.	DRR123456		1.0.0	1.0.0	1.0.0	
	Sample collection and processing	GENEPIO:0001150								
Sample collection and processing	sample_collection_data_steward_name	GENEPIO:0100762	The name of the individual responsible for the data governance, (meta)data usage and distribution of the sample.	Provide the name of the sample collection data steward.	Joe Bloggs		1.0.0	1.0.0	1.0.0	
cample collection and processing	sample_collection_data_steWalid_flatfile	GENEPIO:0100/62	(mora) data usage and distribution of the sample.	Provide the email address of the sample	oue bioggs		1.0.0	1.0.0	1.0.0	
				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	
Gample collection and processing	sample_collection_data_steward_contact_email	GENEPIO:0101107	governance, (meta)uata usaye and distribution of the sample.	contact Citidii .	va		1.0.0	1.0.0	1.0.0	
				The name of the agency should be written out in						
Sample collection and processing	sample_collected_by	GENEPIO:0001153	The name of the organization with which the sample collector is affiliated.	full, (with minor exceptions) and be consistent across multiple submissions.	Agency of Canada		1.0.0	1.0.0	1.0.0	
Sample collection and processing	sample_collected_by	GENEPIO:0001153	The name of the organization with which the sample collector is affiliated.	full, (with minor exceptions) and be consistent across multiple submissions.	Agency of Canada		1.0.0	1.0.0	1.0.0	

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Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking			Editor Notes
r drent oldss	ricia	identinei	Bernitton	Culdulico	Examples					
				The email address can represent a specific						
Sample collection and processing	sample_collector_contact_email	GENEPIO:0001156	The email address of the contact responsible for follow-up regarding the sample.	individual or lab e.g. johnnyblogs@lab.ca, or RespLab@lab.ca	WaterTester@f acility.ca		1.0.0	1.0.0	1.0.0	
Sample collection and processing	sample_collectol_contact_email	GENEFIO.0001130	Sample.	RespLab@iab.ca	acility.ca		1.0.0	1.0.0	1.0.0	
		OFNEDIO 0004404	7		0		4.0.0	100	400	
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. Provide the state/province/territory name from	Canada		1.0.0	1.0.0	1.0.0	
				the GAZ geography ontology. Search for						
	(1.1)	GENEPIO:0001185	7	geography terms here:	Western Cape		1.0.0	1.0.0	1.0.0	
Sample collection and processing	geo_loc_name_(state/province/territory)	GENEPIO.0001165	The state/province/territory of origin of the sample.	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						
		GENEPIO:0100280	7	geography ontology. Search for geography terms	5 1 1:		1.0.0	1.0.0	1.0.0	
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	Derbysnire		1.0.0	1.0.0	1.0.0	
				Provide the city name from the GAZ geography						
				ontology. Search for geography terms here:						
Sample collection and processing	geo_loc_name_(city)	GENEPIO:0001189	The city of origin of the sample.	https://www.ebi.ac.uk/ols/ontologies/gaz	Vancouver		1.0.0	1.0.0	1.0.0	
				Provide the name of the specific geographical						
			The name of a specific geographical location e.g. Credit River (rather	site using a specific noun (a word that names a						
Sample collection and processing	geo_loc_name_(site)	GENEPIO:0100436	than river).	certain place, thing).	Credit River		1.0.0	1.0.0	1.0.0	
				Provide latitude coordinates if available. Do not use the centre of the						
				city/region/province/state/country or the location						
			The letter of a constitution of the constitution of constituti	of your agency as a proxy, as this implicates a						
Sample collection and processing	geo_loc_latitude	GENEPIO:0100309	The latitude coordinates of the geographical location of sample collection.	real location and is misleading. Specify as degrees latitude in format "d[d.dddd] N S".	38.98 N		1.0.0	1.0.0	1.0.0	
	0			Provide longitude 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						
			The longitude coordinates of the geographical location of sample	real location and is misleading. Specify as						
Sample collection and processing	geo_loc_longitude	GENEPIO:0100310	collection.		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	
cample collection and proceeding	organism -	02.12.10.0001101	taxonomic name of the organism.	noonamingovaxonomy.	VIDIO GIOGICIO		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	
cample collection and processing	mindonia_Gabtype	02.12.10.0101100					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	
cample collection and processing	Illidenza_subtyping_scriente_name	GENETIO:0101103					1.0.0	1.0.0	1.0.0	
Carrela adliantian and assessing	A	GENEPIO:0100583					1.0.0	1.0.0	1.0.0	
Sample collection and processing	taxonomic_identification_process	GENEPIO.0100563					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	
Carrala adliantian	WILLO/OLE/EAO LIE -II-d-	OENEDIO 0404:::					100	400	100	
Sample collection and processing	WHO/OIE/FAO_H5_clade	GENEPIO:0101111		If your sample is a continuous sample please			1.0.0	1.0.0	1.0.0	
				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						
			The date on which the sample was collected, or sampling began for a	be provided in ISO 8601 standard format						
Sample collection and processing	sample_collection_date	GENEPIO:0001174	continuous sample.	"YYYY-MM-DD".	2020-03-16		1.0.0	1.0.0	1.0.0	
Comple collection and access to		OENEDIO-0404074	The data as which associated with a said of the said	Provide the date that sample collection ended in	2020 02 12		100	100	100	
Sample collection and processing	sample_collection_end_date	GENEPIO:0101071	The date on which sample collection ended for a continuous sample.	ISO 8601 format i.e. YYYY-MM-DD	2020-03-18		1.0.0	1.0.0	1.0.0	
Sample collection and processing	sample_collection_start_time	GENEPIO:0101072	The time at which sample collection began.	Provide this time in ISO 8601 24hr format, in your local time.	17:15 PST		1.0.0	1.0.0	1.0.0	
				Provide this time in ISO 8601 24hr format, in						
Sample collection and processing	sample_collection_end_time	GENEPIO:0101073	The time at which sample collection ended.	your local time.	19:15 PST		1.0.0	1.0.0	1.0.0	
				If known, select a value from the pick list. The						
				time of sample processing matters especially for grab samples, as fecal concentration in						
Sample collection and processing	sample_collection_time_of_day	GENEPIO:0100765	The descriptive time of day during which the sample was collected.	wastewater fluctuates over the course of the day.	Morning		1.0.0	1.0.0	1.0.0	
Sample collection and processing	sample_collection_time_duration_value	GENEPIO:0100766	The amount of time over which the sample was collected.	Provide the numerical value of time.	4		1.0.0	1.0.0	1.0.0	
Sample collection and processing	sample_collection_time_duration_unit	GENEPIO:0100767	The units of the time duration measurement of sample collection.	Provide the units from the pick list.	Hour		1.0.0	1.0.0	1.0.0	
				Provide the sample received date in ISO 8601					1	
Sample collection and processing	sample received date	GENEPIO:0001179	The date on which the sample was received.	format, i.e. "YYYY-MM-DD".	2020-03-28		1.0.0	1.0.0	1.0.0	

		Ontology				Deprecated Label Deprecated ID	Version		Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Deprecated Laber Deprecated ID	Tracking		Editor Notes
Sample collection and processing	sample processing date	GENEPIO:0100763	The date on which the sample was processed.	Provide the sample processed date 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.			100	100	100
Sample collection and processing	sample processing date	GENEFIO:0100703	The date on which the sample was processed.		Poultry		1.0.0	1.0.0	1.0.0
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 provided, separated by a semi-colon.	hatchery [ENVO:010018 74]		1.0.0	1.0.0	1.0.0
Sample collection and processing	environmental material	GENEPI0:0001223	A substance obtained from the natural or man-made environment e.g. soil, water, sewage, door handle, bed handrall, face mask.	If applicable, select the standardized term and ontology ID for the environmental material from the picklist provided. Separated by a semi-colon.	Soil [ENVO:000019 98]; Water [CHEBI:15377]; Wastewater [ENVO:000020 01]; Broom [ENVO:035013 77]		1.0.0	1.0.0	1.0.0
Sample collection and processing	collection_device	GENEPIO:0001234	The instrument or container used to collect the sample e.g. swab.	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, separated by a semi-colon.	Drag swab [OBI:0002822]		1.0.0	1.0.0	1.0.0
Sample collection and processing	collection_method	GENEPIO:0001241	The process used to collect the sample e.g. phlebotomy, necropsy.	If applicable, provide the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided, separated by a semi-colon.			1.0.0	1.0.0	1.0.0
, and processing		2225.555.241	,	,,,,,,,,,, -					
Sample collection and processing	sample_volume_measurement_value	GENEPIO: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	1.0.0
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.	milliliter (mL) [UO:0000098]		1.0.0	1.0.0	1.0.0
Sample collection and processing	residual_sample_status	GENEPIO:0101090	The status of the residual sample (whether any sample remains after its original use).	purpose. Select a residual sample status from	(sample all used)		1.0.0	1.0.0	1.0.0
				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 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				
Sample collection and processing	purpose_of_sampling	GENEPIO:0001198	The reason that the sample was collected.	sequencing" field.	surveillance		1.0.0	1.0.0	1.0.0
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.			1.0.0	1.0.0	1.0.0
Sample collection and processing	presampling_activity_details	GENEPIO:0100434	The details of the activities or variables that affected the sample collected.	Briefly describe the presampling activities using free text.	Agricultural waste from large farm contributes waste to the site sampled.		1.0.0	1.0.0	1.0.0
Sample collection and processing	sample_storage_method	GENEPIO:0100448	The process used to store the sample.	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, note those here.	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		1.0.0	1.0.0	10.0
Sample collection and processing	sample_storage_medium	GENEPIO:0100449	The medium in which a sample is stored.	Provide the name of the transport medium or storage medium used for this sample. If none was used, leave blank or write "None".	Cary-Blair transport medium		1.0.0	1.0.0	1.0.0

		Ontology				Deprecated Label Deprecated ID	Version Tracking			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	•	Tracking			
Sample collection and processing	sample_storage_duration_value	GENEPIO:0101014	The numerical value of the time measurement during which a sample is in storage.	Provide the numerical value of time.	5	5	1.0.0	1.0.0	1.0.0	
Sample collection and processing	sample_storage_duration_unit	GENEPIO:0101015	The units of a measured sample storage duration.	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	
Sample collection and processing	specimen_processing_details	GENEPIO:0100311	The details of the processing applied to the sample during or after receiving the sample.	Briefly describe the processes applied to the sample.	25 samples were pooled and further prepared as a single sample during library prep.		1.0.0	1.0.0	1.0.0	
Sample collection and processing	experimental_protocol	GENEPIO:0101029	The name of the overarching experimental methodology that was used to process the biomaterial.	Provide the name of the methodology used in your study. If available, provide a link to the protocol.			1.0.0	1.0.0	1.0.0	
		OFFISIO MARKA		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 picklist. If the sample was not a control, leave blank or select 'Not	Positive experimental			400		
Sample collection and processing	experimental_specimen_role_type	GENEPIO:0100921	The type of role that the sample represents in the experiment.	Applicable".	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	100	100	
				Use this field to provide free text details describing other available data types that may provide context for interpreting genomic	Pooled metagenomes containing extended spectrum beta-lactamase (ESBL)					
Sample collection and processing	available_data_type_details	GENEPIO:0101023	Detailed information regarding other available data types.	sequence data.	bacteria		1.0.0	1.0.0	1.0.0	
Environmental conditions and	Environmental conditions and measurements	GENEPIO:0100773	The numerical value of the human population measurement that	Where known, provide the numerical value of	10.500		1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and measurements	water_catchment_area_human_population_measurement_value water_catchment_area_human_population_range	GENEPIO:0100773	contributes to the composition of water in a catchment area. The human population range of the water catchment that contributes effluent to a wastewater site.	population size, i.e. the number of people. Where catchment population is not well known, provide an estimation of population size by selecting a value from the picklist.	1,000 - 10,000 people		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements		OENEDIO-0400775	The method by which a water catchment 's human population size was measured or estimated		population of jurisdiction encompassing the wastewater					
Environmental conditions and	water_catchment_area_human_population_measurement_method		The numerical value describing the number of humans per geographical	population size was measured or estimated. Provide the numerical value of the population	service area		400	400	100	
measurements Environmental conditions and	water catchment area human population density value	GENEPIO:0100776 GENEPIO:0100777	area in a water catchment. The unit describing the number of humans per geographical area in a water catchment.	density in the catchement area. Provide the unit of the population density in the catchement area.	persons per Km^2	•	1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and measurements	water catchment area human population density unit populated area type	GENEPIO:0100777	A type of area that is populated by humans to different degrees.	Provide the populated area type from the pick	Urban area		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	sampling weather conditions	GENEPIO:0100778 GENEPIO:0100779	A type or area that is populated by numans to different degrees. The state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain, etc.	Provide the weather conditions at the time of sample collection.	Rain		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	presampling weather conditions	GENEPIO:0100779	Weather conditions prior to collection that may affect the sample.	Provide the weather conditions prior to sample collection.	Drizzle		1.0.0	1.0.0	1.0.0	
Environmental conditions and			, , , , , , , , , , , , , , , , , , ,	Provide the quantity of precipitation in the area	Drizzle 12		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	precipitation measurement value	GENEPIO:0100911	The amount of water which has fallen during a precipitation process.	leading up to the time of sample collection. Provide the numerical depth only of water only	12					
Environmental conditions and	water_depth	GENEPIO:0100440	The depth of some water.		meter (m)		1.0.0	1.0.0	1.0.0	
Environmental conditions and	water_depth_units	GENEPIO:0101025	The units of measurement for water depth.	depth was recorded. Provide the numerical depth only of the sediment	[UO:0000008]		1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and	sediment_depth	GENEPIO:0100697	The depth of some sediment.		meter (m)	2	1.0.0	1.0.0	1.0.0	
measurements	sediment_depth_units	GENEPIO:0101026	The units of measurement for sediment depth.	depth was recorded.	[UO:0000008]		1.0.0	1.0.0	1.0.0	

		Ontology				Deprecated Label Deprecated ID	Version			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Deprecated Laber Deprecated ID	Tracking			Luito. Notes
Environmental conditions and measurements	air_temperature	GENEPIO:0100441	The temperature of some air.	Provide the numerical value for the temperature of the air (without units).	25		1.0.0	1.0.0	1.0.0	
				2	degree Celsius					
nvironmental conditions and neasurements	air_temperature_units	GENEPIO:0101027	The units of measurement for air temperature.	Provide the units of measurement for which the temperature was recorded.	(C) [UO:0000027]		1.0.0	1.0.0	1.0.0	
invironmental conditions and neasurements	water_temperature	GENEPIO:0100698	The temperature of some water.	Provide the numerical value for the temperature of the water (without units).	4		1.0.0	1.0.0	1.0.0	
nvironmental conditions and				Provide the units of measurement for which the	degree Celsius (C)					
neasurements	water_temperature_units	GENEPIO:0101028	The units of measurement for water temperature.	temperature was recorded.	[ÚÓ:0000027]		1.0.0	1.0.0	1.0.0	
Environmental conditions and neasurements	weather_type	GENEPIO:0100442	The state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain, etc.	Provide the weather conditions at the time of sample collection.	Rain [ENVO:010015 64]		1.0.0	1.0.0	1.0.0	
Environmental conditions and neasurements	precipitation measurement unit	GENEPIO:0100912	The units of measurement for the amount of water which has fallen during a precipitation process.	Provide the units of precipitation by selecting a value from the pick list.	inch		1.0.0	1.0.0	1.0.0	
Environmental conditions and		GENEPIO:0100913	The process used to measure the amount of water which has fallen	Provide the name of the procedure or method	Rain gauge over a 12 hour period prior to sample					
Environmental conditions and	precipitation measurement method		during a precipitation process.	used to measure precipitation. Provide the numerical value of the measured	collection		1.0.0	1.0.0	1.0.0	
neasurements Environmental conditions and	ambient temperature measurement value	GENEPIO:0100935	The numerical value of a measurement of the ambient temperature.	temperature.	70 degree Celsius		1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and	ambient temperature measurement unit	GENEPIO:0100936	The units of a measurement of the ambient temperature. The measured pH value indicating the acidity or basicity(alkalinity) of ar	Provide the units of the measured temperature.	(C)		1.0.0	1.0.0	1.0.0	
environmental conditions and neasurements	pH measurement value	GENEPIO:0001736	aqueous solution.	Provide the numerical value of the measured pH.	7.4		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	pH measurement method	GENEPIO:0100781	The process used to measure pH value.	Provide the name of the procedure or technology used to measure pH.	pH test strip (litmus test)		1.0.0	1.0.0	1.0.0	
Environmental conditions and			The numerical value of a measured fluid flow rate over the course of a	Provide the numerical value of the measured	,					
measurements Environmental conditions and	total daily flow rate measurement value	GENEPIO:0100905	day.	flow rate. Provide the units of the measured flow rate by	10 million gallons		1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and	total daily flow rate measurement unit	GENEPIO:0100906	The units of a measured fluid flow rate over the course of a day.	selecting a value from the pick list. Provide the name of the procedure or technology	per day (MGD)		1.0.0	1.0.0	1.0.0	
neasurements notine manufacture and conditions and conditions and	total daily flow rate measurement method	GENEPIO:0100907	The process used to measure total daily fluid flow rate.	used to measure flow rate. Provide the numerical value of the measured	Flow meter		1.0.0	1.0.0	1.0.0	
neasurements	instantaneous flow rate measurement value	GENEPIO:0100908	The numerical value of a measured instantaneous fluid flow rate.	flow rate.	25		1.0.0	1.0.0	1.0.0	
Environmental conditions and neasurements	instantaneous flow rate measurement unit	GENEPIO:0100909	The units of a measured instantaneous fluid flow rate.	Provide the units of the measured flow rate by selecting a value from the pick list.	cubic meter per hour (m^3/h)		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	instantaneous flow rate measurement method	GENEPIO:0100910	The process used to measure instantaneous fluid flow rate.	Provide the name of the procedure or technology used to measure flow rate.	Flow meter		1.0.0	1.0.0	1.0.0	
Environmental conditions and neasurements	turbidity measurement value	GENEPIO:0100783	The numerical value of a measurement of turbidity.	Provide the numerical value of the measured turbidity.	0.02		1.0.0	1.0.0	1.0.0	
	turbuity measurement value	GENEFIO.0100783	The numerical value of a measurement of turbuny.	,	nephelometric		1.0.0	1.0.0	1.0.0	
Environmental conditions and neasurements	turbidity measurement unit	GENEPIO:0100914	The units of a measurement of turbidity.	Provide the units of the measured turbidity by selecting a value from the pick list.	turbidity unit (NTU)		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	turbidity measurement method	GENEPIO:0101013	The process used to measure turbidity.	Provide the name of the procedure or technology used to measure turbidity.	Nephelometric method		1.0.0	1.0.0	1.0.0	
Environmental conditions and	· ·		, , , , , , , , , , , , , , , , , , ,	Provide the numerical value of the measured	_					
neasurements Environmental conditions and	dissolved oxygen measurement value	GENEPIO:0100915	The numerical value of a measurement of dissolved oxygen.	dissolved oxygen. Provide the units of the measured dissolved	part per million		1.0.0	1.0.0	1.0.0	
measurements	dissolved oxygen measurement unit	GENEPIO:0100784	The units of a measurement of dissolved oxygen.	oxygen by selecting a value from the pick list.	(ppm) Dissolved		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	dissolved oxygen measurement method	GENEPIO:0100785	The method used to measure dissolved oxygen.	Provide the name of the procedure or technology used to measure dissolved oxygen.	oxygen meter in vertical direction		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	oxygen reduction potential (ORP) measurement value	GENEPIO:0100917	The numerical value of a measurement of oxygen reduction potential (ORP).	Provide the numerical value of the measured oxygen reduction potential.	-50		1.0.0	1.0.0	1.0.0	
Environmental conditions and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Provide the units of the measured oxygen reduction potential by selecting a value from the						
measurements Environmental conditions and	oxygen reduction potential (ORP) measurement unit	GENEPIO:0100786	The units of a measurement of oxygen reduction potential (ORP).	pick list.	milliVolt (mV)		1.0.0	1.0.0	1.0.0	
neasurements	oxygen reduction potential (ORP) measurement method	GENEPIO:0100787	The method used to measure oxygen reduction potential (ORP).	Provide the name of the procedure or technology used to measure oxygen reduction potential.	ORP sensor		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	chemical oxygen demand (COD) measurement value	GENEPIO:0100788	The measured value from a chemical oxygen demand (COD) test.	Provide the numerical value of the COD test result.	26		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	chemical oxygen demand (COD) measurement unit	GENEPIO:0100789	The units associated with a value from a chemical oxygen demand (COD) test.	Provide the units of the COD test result.	milligram per liter (mg/L)		1.0.0	1.0.0	1.0.0	
Environmental conditions and	chemical oxygen demand (COD) measurement method	GENEPIO:0100790	The method used to measure chemical oxygen demand (COD).	Provide the name of the procedure or technology used to measure COD.	Hach LCK test		100	100	1.0.0	
Environmental conditions and	carbonaceous biochemical oxygen demand (CBOD) measurement		The numerical value of a measurement of carbonaceous biochemical	Provide the numerical value of the measured				1.5.5		
neasurements Environmental conditions and	value carbonaceous biochemical oxygen demand (CBOD) measurement	GENEPIO:0100791	oxygen demand (CBOD). The units of a measurement of carbonaceous biochemical oxygen	CBOD. Provide the units of the measured CBOD by	20 milligram per		1.0.0	1.0.0	1.0.0	
neasurements	unit	GENEPIO:0100792	demand (CBOD).	selecting a value from the pick list.	liter (mg/L) CBOD		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	carbonaceous biochemical oxygen demand (CBOD) measurement method	GENEPIO:0100793	The method used to measure carbonaceous biochemical oxygen demand (CBOD).	Provide the name of the procedure or technology used to measure CBOD.	measurement by optical probe		1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	total suspended solids (TSS) measurement value	GENEPIO:0100794	The numerical value from a total suspended solids (TSS) test.	Provide the numerical value of the measured TSS.	8		1.0.0	1.0.0	1.0.0	
			The units associated with a value from a total suspended solids (TSS)							

		Ontology			Deprecate	ed Label Deprecated ID Ver	rsion			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Tra	cking			
					Vacuum filter through a 2-micron filter,					
Environmental conditions and measurements	total suspended solids (TSS) measurement method	GENEPIO:0100796	The method used to measure total suspended solids (TSS).	Provide the name of the procedure or technology used to measure TSS.	then oven-dried and weighed sample	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	total dissolved solids (TDS) measurement value	GENEPIO:0100797	The numerical value from a total dissolved solids (TDS) test.	Provide the numerical value of the measured TDS.	2	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	total dissolved solids (TDS) measurement unit	GENEPIO:0100798	The units associated with a value from a total dissolved solids (TDS) test.	Provide the units of the measured TDS.	percent (%)	1.0	.0	1.0.0	1.0.0	
					Subtract calculated TSS					
Environmental conditions and measurements	total dissolved solids (TDS) measurement method	GENEPIO:0100799	The method used to measure total dissolved solids (TDS).	Provide the name of the procedure or technology used to measure TDS.		1.0	.0	1.0.0	1.0.0	
Environmental conditions and neasurements	total solids (TS) measurement value	GENEPIO:0100800	The numerical value from a total solids (TS) test.	Provide the numerical value of the measured TS.	10	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	total solids (TS) measurement unit	GENEPIO:0100801	The units associated with a value from a total solids (TS) test.	Provide the units of the measured TS.	percent (%)	1.0	.0	1.0.0	1.0.0	
Environmental conditions and				Provide the name of the procedure or technology	Gravimetric method by					
measurements Environmental conditions and	total solids (TS) measurement method	GENEPIO:0100802	The method used to measure total solids (TS).	used to measure TS. Provide the numerical value of the measured	then weighing	1.0	.0	1.0.0	1.0.0	
neasurements	alkalinity measurement value	GENEPIO:0100878	The numerical value of a measurement of alkalinity.	alkalinity.	3 milligram per	1.0	.0	1.0.0	1.0.0	
Environmental conditions and					liter of calcium carbonate					
measurements Environmental conditions and	alkalinity measurement unit	GENEPIO:0100879	The units of a measurement of alkalinity.	Provide the units of the measured alkalinity. Provide the name of the procedure or technology	(mg/L CaCO3)	1.0	.0	1.0.0	1.0.0	
neasurements Environmental conditions and	alkalinity measurement method	GENEPIO:0100880	The process used to measure alkalinity.	used to measure alkalinity. Provide the numerical value of the measured	method	1.0	.0	1.0.0	1.0.0	
neasurements	conductivity measurement value	GENEPIO:0100916	The numerical value of a measurement of conductivity.	conductivity.	1412	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	conductivity measurement unit	GENEPIO:0100803	The units of a measurement of conductivity.	Provide the units of the measured conductivity.	microSiemen per centimeter (µS/cm)	1.0		1.0.0	1.0.0	
	conditioning measurement unit	GENETIO:0100003	The units of a measurement of conductivity.		Conductivity	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	conductivity measurement method	GENEPIO:0100804	The method used to measure conductivity.	Provide the name of the procedure or technology used to measure conductivity.	meter	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	salinity measurement value	GENEPIO:0100805	The numerical value of a measurement of salinity.	Provide the numerical value of the measured salinity.	35	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	salinity measurement unit	GENEPIO:0100806	The units of a measurement of salinity.		practical salinity unit (PSU)	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	salinity measurement method	GENEPIO:0100807	The method used to measure salinity.	Provide the name of the procedure or technology used to measure salinity.	conductivity meter	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	total nitrogen (TN) measurement value	GENEPIO:0100808	The numerical value of a measurement of total nitrogen (TN).	Provide the numerical value of the measured TN.	120	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	total nitrogen (TN) measurement unit	GENEPIO:0100809	The units of a measurement of total nitrogen (TN).	Provide the units of the measured TN.	milligram per liter (mg/L)	1.0	.0	1.0.0	1.0.0	
Environmental conditions and				Provide the name of the procedure or technology	Hach total nitrogen spectrophotom					
measurements Environmental conditions and	total nitrogen (TN) measurement method	GENEPIO:0100810	The method used to measure total nitrogen (TN).	used to measure TN.	etric test	1.0		1.0.0	1.0.0	
neasurements	total phosphorus (TP) measurement value	GENEPIO:0100811	The numerical value of a measurement of total phosphorus (TP).	Provide the numerical value of the measured TP.	2 milligrams	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	total phosphorus (TP) measurement unit	GENEPIO:0100812	The units of a measurement of total phosphorus (TP).		orthophosphate as phosphorus per liter (mg PO4-P/L)	1.0	.0	1.0.0	1.0.0	
Environmental conditions and	total phosphorus (TP) measurement method	GENEPIO:0100813	The method used to measure total phosphorus (TP).		Merck phosphate spectrophotom etric test kit	1.0	.0	1.0.0	1.0.0	
Environmental conditions and	fecal contamination indicator	GENEPIO:0100814	A gene, virus, bacteria, or substance used to measure the sanitary quality of water in regards to fecal contamination.	If a fecal contamination indicator was measured,	crAssphage	1.0		1.0.0	1.0.0	
Environmental conditions and neasurements	fecal contamination value	GENEPIO:0100815	The numerical value of a measurement of fecal contamination.	Provide the numerical value of the measured fecal contamination.	10	1.0		1.0.0	1.0.0	
neasurements	rocal cornalilliduoti value	GENEFIO.0100015	The numerical value of a measurement of recal containination.		cycle threshold (Ct) /	1.0		1.0.0	1.0.0	
measurements	fecal contamination unit	GENEPIO:0100816	The units of a measurement of fecal contamination.	Provide the units of the measured fecal contamination.	quantification cycle (Cq)	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	fecal contamination method	GENEPIO:0100817	The method used to measure fecal contamination.		quantitative PCR assay	1.0	.0	1.0.0	1.0.0	
Environmental conditions and measurements	fecal coliform count value	GENEPIO:0100818	The numerical value of a measurement of fecal coliforms within a sample.	Provide the numerical value of the measured fecal coliforms.	3	1.0	.0	1.0.0	1.0.0	
Environmental conditions and				Provide the units of the measured fecal	most probable number per milliliter					
measurements	fecal coliform count unit	GENEPIO:0100819	The units of a measurement of fecal coliforms.	coliforms.	(MPN/mL)	1.0	.0	1.0.0	1.0.0	

		Ontology			Deprecated Label	Deprecated ID Version			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Tracking			
Environmental conditions and measurements	fecal coliform count method	GENEPIO:0100820	The method used to measure fecal coliforms.	Provide the name of the procedure or technology used to measure fecal coliforms.	MPN method via serial dilutions until lack of growth	100	100	100	
Environmental conditions and measurements	urinary contamination indicator	GENEPIO:0100827	A gene, virus, bacteria, or substance used to measure the sanitary quality of water in regards to urinary contamination.	If a urinary contamination indicator was measured, select it from the picklist.	urobilin	1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	urinary contamination value	GENEPIO:0100838	The numerical value of a measurement of urinary contamination.	Provide the numerical value of the measured urinary contamination.	3	1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	urinary contamination unit	GENEPIO:0100839	The units of a measurement of urinary contamination.	Provide the units of the measured urinary contamination.	nanograms per liter	1.0.0	1.0.0	1.0.0	
Environmental conditions and	diffully containing on the containing of the con	OLIVEI 10.0 100000	The disc of a medical office of a many contamination.	Provide the name of the procedure or technology	Urobilin Concentration	1.0.0	1.0.0	1.5.5	
measurements Environmental conditions and	urinary contamination method	GENEPIO:0100840	The method used to measure urinary contamination. The numerical value of a measurement of temperature of a sample at	used to measure urinary contamination. Provide the numerical value of the measured	Test	1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and	sample temperature value (at collection)	GENEPIO:0100821	collection. The units of a measurement of temperature of a sample at the time of	temperature.	20 degree Celsius	1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and	sample temperature unit (at collection)	GENEPIO:0100822	collection. The numerical value of a measurement of temperature of a sample	Provide the units of the measured temperature. Provide the numerical value of the measured	(C)	1.0.0	1.0.0	1.0.0	
measurements Environmental conditions and	sample temperature value (when received)	GENEPIO:0100823	upon receipt. The units of a measurement of temperature of a sample at the time	temperature.	22 degree Celsius	1.0.0	1.0.0	1.0.0	
measurements	sample temperature unit (when received)	GENEPIO:0100824	upon receipt.	Provide the units of the measured temperature.	(C)	1.0.0	1.0.0	1.0.0	
Sequence information	Sequence information	GENEPIO:0001441 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.	LS_2010_NP_ 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	whole genome sequencing assay [OBI:0002117]	100	100	1.0.0	
Sequence information	sequencing_assay_type sequencing_date	GENEPIO:0001447	The date the sample was sequenced.	ISO 8601 standard "YYYY-MM-DD".	2020-06-22	1.0.0	1.0.0	1.0.0	
Sequence information	purpose of sequencing		The reason that the sample was sequenced.	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	Travel-associat	100	100	1.0.0	
			The description of why the sample was sequenced providing specific	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 description include: Assessing public health control measures, Determining early introductions and spread, Investigating arini-related exposures, Investigating arine-related exposures, Investigating remote regions, Investigating health care workers, Investigating	Investigating schools/univers				
Sequence information Sequence information	purpose_of_sequencing_details	GENEPIO:0001446 GENEPIO:0100416	details. The name of the agency, organization or institution responsible for sequencing the isolate's genome.	schools/universities. 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.	ities Public Health Agency of Canada (PHAC) [GENEPIO:010 0551]	1.0.0	1.0.0	1.0.0	
			The specific laboratory affiliation of the responsible for sequencing the	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 null					
Sequence information Sequence information	sequenced_by_laboratory_name sequenced_by_contact_name	GENEPIO:0100470 GENEPIO:0100471	isolate's genome. The name or title of the contact responsible for follow-up regarding the sequence.	value. Provide the name of an individual or their job title. As personnel turnover may render the contact's name obsolete, it is more preferable 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.	Topp Lab Enterics Lab Manager	1.0.0	1.0.0	1.0.0	
Sequence information	sequenced_by_contact_name sequenced_by_contact_email	GENEPIO:01004/1	The email address of the contact responsible for follow-up regarding the sequence.	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	enterics@lab.c	1.0.0	1.0.0	1.0.0	
Sequence information	sequence_submitted_by		The name of the agency that submitted the sequence to a database.	The name of the agency should be written out in full, (with minor exceptions) and be consistent aar, os multiple submissions. For Canadian institutions submitting specimens rather than	Public Health Ontario (PHO)	1.0.0	1.0.0	1.0.0	

Segreta Marcados Segreta Segreta Marcados Segreta Marcado			Ontology			Deprecated Label	Deprecated ID Version Tracking			Editor Notes
Comparison in the control of the c	Parent Class	Field	Identifier	Definition	Guidance		Tracking			
Emple collection and processing under part part of the comment of	Sequence information	sequence submitter contact email	GENEPIO:0001165				1.0.0	1.0.0	1.0.0	
Sample collection and processing incidence, and, shittandor, method GENETHOCHIONICAL Process used to estated genomic material from a sample. Semple collection and processing unders, and, estimation, juminor of CENETHOCHIONICAL Processing in the condigination controls brailed and embeddings	Sequence anomalous		53.2 6550 160	Sequences.	and the second of the second o	Direct wastewater RNA capture and purification via the "Sewage, Salt, Silica and SARS-CoV-2 (4S)" method via found at		1.0.0		
Serget collection and processing incident and processing encoderation encoderation and processing encoderation encoderation encoderation and processing encoderation entoderation encoderation	Sample collection and processing	nucleic_acid_extraction_method	GENEPIO:0100939	The process used to extract genomic material from a sample.	Briefly describe the extraction method used.	tocols.io/view/v -4-direct-waste water-ma-captu re-and-purificati on-36wqq581y	1.0.0	1.0.0	1.0.0	
Sequence information						PowerFecal				
Requence information sequencing_project_name GENEPIO 0100472 Params of the project initiative/program for which sequencing was submounted as sequencing_project_name GENEPIO 0100473 The platform technology used to perform the sequencing platform to ecquencing_platform GENEPIO 0100473 The platform technology used to perform the sequencing platform to ecquencing_platform GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010452 The model of the sequencing instrument used. GENEPIO 0010455 The model of the sequencing instrument used. GENEPIO 0010455 The model of the sequencing instrument used. GENEPIO 0010455 The model of the sequencing instrument used. The model of the sequencing instrument used. GENEPIO 0010455 The model of the sequencing instrument used. The model of the sequencing instrument used. GENEPIO 0010455 The model of the sequencing instrument used. T				The description of the endogenous controls included when extracting a	Provide the names of endogenous controls that were used as a reference during extraction. If relevant, include titers of these controls, as well as whether any controls were expected but not	FIO DIVA NIL				
Sequence information		·		The name of the project/initiative/program for which sequencing was	Provide the name of the project and/or the project ID here. If the information is unknown or cannot be provided, leave blank or provide a null	AMR-GRDI				
Sequence information sequencing_listiform of CENEPIO.010472 The platform technology used to perform the sequencing. Provide the name of the library preparation kit used. Sequence information DNA_fragment_length GENEPIO.010086 GENEPIO.010086 GENEPIO.010086 GENEPIO.010086 The notice of the sequencing instrument used. DNA_fragment_length GENEPIO.010086 GENEPIO.010086 GENEPIO.010086 GENEPIO.010086 The notice of the sequencing instrument used. Provide the name of the library preparation kit used to generate the library preparation kit used. Sequence information DNA_fragment_length GENEPIO.010086 GENEPIO.010086 GENEPIO.010086 The notice of the sequencing instrument used. GENEPIO.010086 GENEPIO.010	Sequence information	sequencing_project_name	GENEPIO:0100472	performed.	value. Provide the name of the company that created the sequencing instrument by selecting a value from the template pick list. If the information is	(PA-1356)	1.0.0	1.0.0	1.0.0	
Sequence information sequencing a value from the template pick list. If Topic Control	Sequence information	sequencing_platform	GENEPIO:0100473	The platform technology used to perform the sequencing.	provide a null value.	1923]	1.0.0	1.0.0	1.0.0	
Sequence information library_preparation_kit Sequence information DNA_fragment_length Sequence information DNA_fragment_length Sequence information DNA_fragment_length Sequence information Sequenced. Sequence information DNA_fragment_length Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. Sequence information DNA_fragment_length Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. The molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide the name of the enrichment method (balt-capture) (SENEPIO:000 Sequenced). Sequence information Sequence information Sequenced. Provide the name of the enrichment method (balt-capture) (SENEPIO:000 Sequenced). Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. Sequence information Sequenced. DNA_fragment_length Sequence information Sequenced. The molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide the name of the enrichment method (balt-capture) (SENEPIO:000 Sequenced). Sequence information Sequenced. Provide the name of the enrichment method (balt-capture) (SENEPIO:000 Sequenced). Sequence information Sequenced. Provide the name of the enrichment method (balt-capture) (SENEPIO:000 Sequenced). Sequence information Sequenced. Provide the name of the enrichment method (balt-capture) (SENEPIO:000 Sequenced). Sequence information Sequenced.	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	2500 [GENEPIO:010	1.0.0	1.0.0	1.0.0	
Sequence information library_preparation_kit GENEPIO.0001450 being sequenced. 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. 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. The length of the DNA fragment length in base pairs (do not include the units). Hybrid selection (GENEPIO.000 IGENEPIO.000 Igenerated by mechanical shearing or enzymatic digestion for the purposes of library preparation. The molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide the name of the enrichment method Igenerated by mechanical shearing or enzymatic digestion for the purposes of library preparation. Provide the name of the enrichment method Igenerated by mechanical shearing or enzymatic digestion for the purposes of library preparation. From the molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide the name of the enrichment method Igenerated by mechanical shearing or enzymatic digestion for the purposes of library preparation. From the molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide the name of the enrichment method Igenerated by mechanical shearing or enzymatic digestion for the purposes of library preparation. From the fragment length in base pairs (do not all to provide the units). Hybrid selection for the purpose of library preparation. From the fragment length in base pairs (do not all to provide the units). Hybrid selection for the units of the unit	Sequence information						1.0.0	1.0.0	1.0.0	
Sequence information library_preparation_kit GENEPIC:0001450 being sequenced. Sequence information DNA_fragment_length GENEPIC:0100843 Provide the DNA_fragment generated by mechanical shearing or enzymatic digestion for the purposes of library preparation. The length of the DNA fragment length in base pairs (do not include the units). From the molecular technique used to selectively capture and amplify specific regions of interest from a genome. Sequence information GENEPIC:0100843 Provide the name of the enrichment method 1950 Provide the name of the enrichment method 1950 Provide details that are applicable to the method you used. Note: if half-capture methods were used for enrichment, provide the governor or provide selectively capture and amplify you used. Note: if half-capture methods were used for enrichment, provide the name of the purposes of library preparation. Provide the name of the enrichment method 1950 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0				The course of the DNA library constitution in the course of the library course of the li	Describe the server of the library server his					
Sequence information DNA_fragment_length GENEPIC:0100843 enzymatic digestion for the purposes of library preparation. The molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide the name of the enrichment method of the enrichment was done using Twist's respiratory virus research panel: Provide details that are applicable to the method survey used. Note: If bait-capture methods were used to selectively capture and amplify specific regions of interest from a genome. Details that provide additional context to the molecular technique used to selectively capture and amplify specific regions of interest from a genome. Details that provide additional context to the molecular technique used to selectively capture and amplify specific regions of interest from a genome. Provide details that are applicable to the method you used. Note: If bait-capture methods were used for enrichment, provide the panel name and version number for a URL providing that are applicable to the method you used. Note: If bait-capture methods were used for enrichment, provide the panel name and version number for a URL providing that provides and pression number for a URL providing that are applicable to the method you used. Note: If bait-capture methods were used for enrichment, provide the panel name and version number for a URL providing that are applicable to the method you used. Note: If bait-capture methods were used for enrichment, provide the panel name and version number for a URL providing that are applicable to the method you used. Note: If bait-capture methods were used for enrichment, provide the panel name and version number for a URL providing that are applicable to the method you used. Note: If bait-capture methods were used for enrichment provide the panel name and version number for a URL providing that are applicable to the method you used. Note: If bait-capture is the part of the panel is	Sequence information	library_preparation_kit	GENEPIO:0001450			Nextera XT	1.0.0	1.0.0	1.0.0	
Sequence information GENEPIO:0100966 Sequence information 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 (ball-capture) (ENEPIO:000 (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (150) (1				The length of the DNA fragment generated by mechanical shearing or	Provide the fragment length in base pairs (do not					
Sequence information GENEPIO:0100966 GENEPIO:0100966 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 Provide the name of the enrichment was done using Twist's respiratory virus research panel: https://www.twi.stibioscience.co you used. Note: If bail-capture methods were used for enrichment, provide the panel mane to selectively capture and amplify specific regions of interest from a genome. Provide details that are applicable to the method you used. Note: If bail-capture methods were used for enrichment, provide the panel name and version number of value for enrichment provides the panels/resistance. On provide details that are applicable to the method you used. Note: If bail-capture methods were used for enrichment, provide the panel name and version number of values.	Sequence information	DNA_fragment_length	GENEPIO:0100843	enzymatic digestion for the purposes of library preparation.	include the units).	Hybrid	1.0.0	1.0.0	1.0.0	
done using Twist's respiratory virus research panel: https://www.twi Provide details that are applicable to the method subscience.co Details that provide additional context to the molecular technique used Details that provide additional context to the molecular technique used used. Find the provided that the provid	Sequence information	genomic_target_enrichment_method	GENEPIO:0100966		Provide the name of the enrichment method	(bait-capture) [GENEPIO:000	1.0.0	1.0.0	1.0.0	
Sequence information genomic_target_enrichment_method_details GENEPIO.0100967					you used. Note: If bait-capture methods were used for enrichment, provide the panel name	done using Twist's respiratory virus research panel: https://www.twi stbioscienc.co m/products/ngs //kred-panels/re				
The specifications of the primers (primer sequences, binding positions, Provide the name and version of the primer	Sequence information	genomic_target_enrichment_method_details	GENEPIO:0100967	genome.	information).		1.0.0	1.0.0	1.0.0	
Sequence information amplicon_pcr_primer_scheme GENEPIO:0001456 sequenced. Sequence information amplicon_pcr_primer_scheme GENEPIO:0001456 sequenced. Sequence information amplicon_pcr_primer_scheme in the special calculation is to the primer sequence in the special calculation is to the primer special calculation in the primer special calculation is to the primer special calculation in the primer special calculation is to the primer special calculation in the primer special calculation is to the primer special calculation in the primer special calculation is to the primer special calculation in the primer special calculation is the special calculation in the primer special calculation is the primer special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the primer special calculation is the special calculation in the special calculation is the special calculation in t	Sequence information	amplicon_pcr_primer_scheme	GENEPIO:0001456	fragment size generated etc) used to generate the amplicons to be	scheme used to generate the amplicons for	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	Sequence information	amplicon_size	GENEPIO:0001449	The length of the amplicon generated by PCR amplification.		300	1.0.0	1.0.0	1.0.0	

		Ontology			Deprecated Label	Deprecated ID Version Tracking			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Tracking			
Sequence information	sequencing_flow_cell_version	GENEPIO:0101102	The version number of the flow cell used for generating sequence data.	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 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	
Societies in annual in	Square	5.15.16.310116	The resident full field of the field control of generaling dequation data.	Provide the name and version of the procedure	https://www.pro tocols.jo/view/n cov-2019-sequ encing-protocol -bbmuik6w?ver sion_warning=n		10.0	1.0.0	
Sequence information	sequencing_protocol	GENEPIO:0001454	The protocol or method used for sequencing.	provide a link to a protocol online.	ABC123_S1_L	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.	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	100	1.0.0	
					-14:5-				
Sequence information	fast5_filename	GENEPIO:0001480	The user-specified filename of the FAST5 file.	Provide the FAST5 filename.	batch1a_seque 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				1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	quality control method name	GENEPIO:0100557	The name of the method used to assess whether a sequence passed a predetermined quality control threshold.	method name is provided.	ncov-tools	1.0.0	1.0.0	1.0.0	
			The version number of the method used to assess whether a sequence	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 convention the developer implements (e.g. date, semantic versioning). If multiple methods were used, record the version much resion in the same order as the method names. Separate the version					
Bioinformatics and QC metrics	quality control method version	GENEPIO:0100558	passed a predetermined quality control threshold.	numbers using a semi-colon.	1.2.3	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	quality control determination	GENEPIO:0100559	The determination of 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 GitHub issuetracker using the New Term Request form.	sequence failed quality control				
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 GitHub issuetracker using the New Term Request form.	low average genome coverage	1.0.0	1.0.0	1.0.0	
			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				
Bioinformatics and QC metrics	quality control details	GENEPIO:0100561	assessment.	using free text.	amplification.	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	raw sequence data processing method	GENEPIO:0001458	The method used for raw data processing such as removing barcodes, adapter trimming, filtering etc.	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 used for trimming adaptors, quality filtering, etc. (e.g. Trimmomatic v. 0.38, Porechop v. 0.2.3), or a link to a GitHub protocol.	Porechop 0.2.3	1.0.0	1.0.0	1.0.0	
				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 SPAdes Genome	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	sequence assembly software name	GENEPIO:0100825	The name of the software used to assemble a sequence.	Provide the name of the software used to assemble the sequence.	Assembler, Canu, wtdbg2, velvet	1.0.0	1.0.0	1.0.0	

		Ontology			Donrocated La	abel Deprecated ID Version			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Tracking			Luitor Notes
				Provide the version of the software used to					
Bioinformatics and QC metrics	sequence 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	
				Provide the name of the software used to					
Bioinformatics and QC metrics	consensus sequence software name	GENEPIO:0001463	The name of the software used to generate the consensus sequence.	generate the consensus sequence.	iVar	1.0.0	1.0.0	1.0.0	
				Provide the version of the software used to					
Bioinformatics and QC metrics	consensus sequence software version	GENEPIO:0001469	The version of the software used to generate the consensus sequence.	generate the consensus sequence.	1.3	1.0.0	1.0.0	1.0.0	
			The percentage of the reference genome covered by the sequenced						
Bioinformatics and QC metrics	breadth of coverage value	GENEPIO:0001472	data, to a prescribed depth.	Provide value as a percent.	95	1.0.0	1.0.0	1.0.0	
			The average number of reads representing a given nucleotide in the						
Bioinformatics and QC metrics	depth of coverage value	GENEPIO:0001474	reconstructed sequence.	Provide value as a fold of coverage.	400	1.0.0	1.0.0	1.0.0	
	1		L						
Bioinformatics and QC metrics	depth 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	
			The percentage of expected genes identified in the genome being						
			sequenced. Missing genes indicate missing genomic regions	Provide the genome completeness as a percent					
Bioinformatics and QC metrics	genome completeness	GENEPIO:0100844	(incompleteness) in the data.	(no need to include units).	85	1.0.0	1.0.0	1.0.0	
D		OENEDIO 0004400	T1	Provide a numerical value (no need to include	007500	100	100	100	
Bioinformatics and QC metrics	number of base pairs sequenced	GENEPIO:0001482	The number of total base pairs generated by the sequencing process.	units).	387566	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	number of total reads	GENEPIO:0100827	The total number of non-unique reads generated by the sequencing	Provide a numerical value (no need to include	423867	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	number of total reads	GENEPIO:0100827	process.	units).	423867	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	number of unique reads	GENEPIO:0100828	The number of unique reads generated by the acquencing process	Provide a numerical value (no need to include units).	248236	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	number of unique reads	GENEPIO:0100828	The number of unique reads generated by the sequencing process.	units).	246236	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	minimum post-trimming read length	GENEPIO:0100829	The threshold used as a cut-off for the minimum length of a read after trimming.	Provide a numerical value (no need to include units).	150	1.0.0	100	1.0.0	
Diditionnates and QC metrics	minimum post-uniming read length	GENET 10:0100023	unining.	unto).	130	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	number 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	
Distribution and Go motifice	number of contage	GENERIO GOSTO	assembly.	Trovido d Hamoricai valdo.	10	1.0.0	1.0.0	1.0.0	
Bioinformatics and QC metrics	percent 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	1.0.0	1.0.0	1.0.0	
	parameter general sense.		, pg		_				
			The same of architecture (New York 1997)	Deside a sussed of the fee and the fee					
Bioinformatics and QC metrics	Ns 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	
				,					
			The length of the shortest read that, together with other reads,						
Bioinformatics and QC metrics	N50	GENEPIO:0100938	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	
			The percent of the total number of reads identified as contamination	Provide the percent contamination value (no					
Bioinformatics and QC metrics	percent read contamination	GENEPIO:0100845	(not belonging to the target organism) in a sequence dataset.	need to include units).	2	1.0.0	1.0.0	1.0.0	
			The length of the genome generated by assembling reads using a	Provide a numerical value (no need to include					
Bioinformatics and QC metrics	sequence assembly length	GENEPIO:0100846	scaffold or by reference-based mapping.	units).	34272	1.0.0	1.0.0	1.0.0	
			The length of the genome defined by the most common nucleotides at	Provide a numerical value (no need to include					
Bioinformatics and QC metrics	consensus genome length	GENEPIO:0001483	each position.	units).	38677	1.0.0	1.0.0	1.0.0	
				Provide the accession number of the reference					
Bioinformatics and QC metrics	reference genome accession	GENEPIO:0001485	A persistent, unique identifier of a genome database entry.	genome.	NC_045512.2	1.0.0	1.0.0	1.0.0	
				Provide the deduplication software name					
			The method used to remove duplicated reads in a sequence read	followed by the version, or a link to a tool or					
Bioinformatics and QC metrics	deduplication method	GENEPIO:0100831	dataset.	method.	DeDup 0.12.8	1.0.0	1.0.0	1.0.0	

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking			Editor Notes
Parent Class	Fleid	ldentiller	Definition	Further details regarding the methods used to	=xamples		9			
				process raw data, and/or generate assemblies,						
				and/or generate consensus sequences can. This information can be provided in an SOP or	https://github.c					
				protocol or pipeline/workflow. Provide the name	om/phac-nml/n					
Bioinformatics and QC metrics	his information protected	GENEPIO:0001489	A d	and version number of the protocol, or a GitHub link to a pipeline or workflow.	cov2019-artic-n		100	1.0.0	1.0.0	
Bioinformatics and QC metrics	bioinformatics protocol	GENEPIO:0001469	A description of the overall bioinformatics strategy used.	link to a pipeline of worklow.	1		1.0.0	1.0.0	1.0.0	
	Taxonomic identification information	GENEPIO:0101082					1.0.0	1.0.0	1.0.0	
		OENE! 10.0101002					1.0.0	1.0.0	1.0.0	
			Th		Bowtie2, BWA-MFM					
Taxonomic identification information	read mapping software name	GENEPIO:0100832	The name of the software used to map sequence reads to a reference genome or set of reference genes.	Provide the name of the read mapping software.			1.0.0	1.0.0	1.0.0	
			, and the second	0						
			The version of the software used to map sequence reads to a reference	Provide the version number of the read manning						
Taxonomic identification information	read mapping software version	GENEPIO:0100833	genome or set of reference genes.	software.	2.5.1		1.0.0	1.0.0	1.0.0	
			The name of the taxonomic reference database used to identify the	Provide the name of the taxonomic reference	NCBITaxon					
Taxonomic identification information	taxonomic reference database name	GENEPIO:0100834	organism.	database.	NCBITaxon					
Taxonomic identification information	taxonomia reference database version	GENEPIO:0100835	The version of the taxonomic reference database used to identify the	Provide the version number of the taxonomic	1.3		100	100	1.0.0	
raxonomic identification information	taxonomic reference database version	GENEPIO:0100835	organism.	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 ruominoation iniormation	manifestion and an analysis report medianie	SEINE 10.0101074	anaryoro.	Providing the date that an analysis was performed			7.0.0	1.0.0	1.0.0	
				can help provide context for tool and reference						
				database versions. Provide the date that the taxonomic analysis was performed in ISO 8601						
Taxonomic identification information	taxonomic analysis date	GENEPIO:0101075	The date a taxonomic analysis was performed.	format, i.e. "YYYY-MM-DD".	2024-02-01		1.0.0	1.0.0	1.0.0	
				Provide a description of the read mapping	Phred score					
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					1.0.0	1.0.0	1.0.0	
	Pathogen diagnostic testing	GENEPIO:0001506		Provide the full name of the gene used in the test. Standardized gene names can be found in			1.0.0	1.0.0	1.0.0	
				test. Standardized gene names can be found in the Gene Ontology using this look-up service;						
Pathogen diagnostic testing	Pathogen diagnostic testing genetic target name	GENEPIO:0001506	The name of the genetic marker used for testing.	test. Standardized gene names can be found in	gyrase A		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing			The name of the genetic marker used for testing.	test. Standardized gene names can be found in the Gene Ontology using this look-up service;	gyrase A					
	genetic target name	GENEPIO:0101116	The name of the genetic marker used for testing.	test. Standardized gene names can be found in the Gene Ontology using this look-up service;	gyrase A		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name	GENEPIO:01011116 GENEPIO:0101117	The name of the genetic marker used for testing.	test. Standardized gene names can be found in the Gene Ontology using this look-up service;	gyrase A					
	genetic target name	GENEPIO:0101116	The name of the genetic marker used for testing.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl	gyrase A		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name	GENEPIO:01011116 GENEPIO:0101117	The name of the genetic marker used for testing.	test. Standardized gene names can be found in the Gene Ontlogy using this look-up service; https://bit.ly/2Sq1Lbl			1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118	The name of the genetic marker used for testing. The binary value of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl			1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118		test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be	diagnostic		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118		test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample.	diagnostic		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118		test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be	diagnostic		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962	The binary value of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test	diagnostic target present		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test	diagnostic target present		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962	The binary value of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units).	diagnostic target present		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test.	diagnostic target present		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value	GENEPIO.0101116 GENEPIO.0101117 GENEPIO.0101118 GENEPIO.0100962 GENEPIO.0100963 GENEPIO.0100964	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value	GENEPIO.0101116 GENEPIO.0101117 GENEPIO.0101118 GENEPIO.0100962 GENEPIO.0100963 GENEPIO.0100964	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit	GENEPIO.0101116 GENEPIO.0101117 GENEPIO.0101118 GENEPIO.0100962 GENEPIO.0100963 GENEPIO.0100964 GENEPIO.0100965	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value	GENEPIO.0101116 GENEPIO.0101117 GENEPIO.0101118 GENEPIO.0100962 GENEPIO.0100963 GENEPIO.0100964	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0	1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit	GENEPIO.0101116 GENEPIO.0101117 GENEPIO.0101118 GENEPIO.0100962 GENEPIO.0100963 GENEPIO.0100964 GENEPIO.0100965	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit diagnostic measurement method	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963 GENEPIO:0100964 GENEPIO:0100965 GENEPIO:010104	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit	GENEPIO.0101116 GENEPIO.0101117 GENEPIO.0101118 GENEPIO.0100962 GENEPIO.0100963 GENEPIO.0100964 GENEPIO.0100965	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit diagnostic measurement method	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963 GENEPIO:0100964 GENEPIO:0100965 GENEPIO:010104	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit diagnostic measurement method diagnostic testing threshold value	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963 GENEPIO:0100964 GENEPIO:0100965 GENEPIO:010104 GENEPIO:0101104	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0 1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit diagnostic measurement method	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963 GENEPIO:0100964 GENEPIO:0100965 GENEPIO:010104	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit diagnostic measurement method diagnostic testing threshold value	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963 GENEPIO:0100964 GENEPIO:0100965 GENEPIO:010104 GENEPIO:0101104	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0 1.0.0	
Pathogen diagnostic testing	genetic target name genetic target region genetic target region reference genome diagnostic target presence diagnostic measurement value diagnostic measurement unit diagnostic measurement method diagnostic testing threshold value	GENEPIO:0101116 GENEPIO:0101117 GENEPIO:0101118 GENEPIO:0100962 GENEPIO:0100963 GENEPIO:0100964 GENEPIO:0100965 GENEPIO:010104 GENEPIO:0101104	The binary value of the result from a diagnostic test. The value of the result from a diagnostic test. The unit of the result from a diagnostic test.	test. Standardized gene names can be found in the Gene Ontology using this look-up service: https://bit.ly/2Sq1Lbl Select a value from the pick list provided, to describe whether a target was determined to be present or absent within a sample. Provide the numerical result of a diagnostic test (no need to include units). Select a value from the pick list provided, to describe the units of the given diagnostic test. Select a value from the pick list provided to describe the themselved for a given diagnostic.	diagnostic target present 1000 cycle threshold (Ct)		1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0 1.0.0 1.0.0	1.0.0 1.0.0 1.0.0 1.0.0 1.0.0	

		Ontology				Deprecated Label Deprecated ID	Version			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples		Tracking			
Risk assessment information	prevalence metrics	GENEPIO:0100480	Metrics regarding the prevalence of the pathogen of interest obtained from a surveillance project.	total samples collected", "Number of positive	Number of tota 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.	Abattoir [ENVO:010009 25]					
Risk assessment information	experimental_intervention	GENEPIO:0100483	The category of the experimental intervention applied in the food production system.	In some surveys, a particular intervention in the food supply chain in studied. If there was an 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.			1.0.0	1.0.0	1.0.0	