Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description/Gui
	Colour Code Legend field name in yellow = required					IMPORTANT: Only labels and/or IDs will be deprecated, always with replacement version provided. If a term changes in its meaning, a new term will be created.				dance
	field name in purple = recommended									
	field name in white = optional									
Sample collection and processing Sample collection and processing	sample_collector_sample_ID	GENEPIO:0001150 GENEPIO:0001123	The user-defined name for the sample.	The sample_ID should represent the identifier assigned to the sample at time of collection, for which all the descriptive information applies. If the original sample_ID is unknown or cannot be provided, leave blank or provide a null value.	ABCD123			3.0.0	3.0.0	3.0.0
Sample collection and processing	alternative_sample_ID	GENEPIO:0100427	An alternative sample_ID assigned to the sample by another organization.	Alternative identifiers assigned to the sample should be tracked along with original IDs to establish chain of custody. Alternative sample IDs should be provided in the in a prescribed format which consists of the ID followed by square brackets (no space in between the ID and bracket) containing the short form of ID provider's agency name I.e. ID[short organization code]. Agency short forms include the following: Public Health Agency of Canada: PHAC Canadian Food Inspection Agency: CFIA Agriculture and Agri-Food Canada: AFCF Fisheries and Oceans Canada: DFO Environment and Climate Change Canada: ECCC Health Canada: HC Multiple identifiers can be provided and separated by semi-colons. If the information is unknown or cannot be provided, leave blank o provide a null value.				3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collected_by	GENEPIO:0001153	The name of the organization with which the sample collector is affiliated.	Provide the name of the agency, organization or institution that collected the sample in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Public Health Agency of Canada (PHAC) [GENEPIO:0100551]			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collected_by_laboratory_name	GENEPIO:0100428	The specific laboratory affiliation of the sample collector.	Provide the name of the specific laboratory that collected the sample (avoid abbreviations). If the information is unknown o cannot be provided, leave blank or provide a null value.	Topp Lab			3.0.0	3.0.0	3.0.0
			The name of the	Provide the name of the project and/or the project ID here. If the information is unknown	Watershed Project (HA-120)					
			project/initiative/program for	or cannot be provided, leave blank or provide						
Sample collection and processing Sample collection and processing	sample_collection_project_name sample_plan_name	GENEPIO:0100429		a null value. Provide the name of the sample plan used for sample collection. If the information is unknown or cannot be provided, leave blank or provide a null value.	Baseline Study in Broiler			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_plan_ID	GENEPIO:0100431		Provide the identifier of the sample plan used for sample collection. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collector_contact_name	GENEPIO:0100432	The name or job title of the contact responsible for follow-up regarding the sample.	Provide the name of an individual or their job title. As personnel tumover 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.	Enterics Lab Manager			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collector_contact_email	GENEPIO:0001156	The email address of the contact responsible for follow-up regarding the sample.	Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more preferable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank o provide a null value.				3.0.0	3.0.0	3.0.0

5/1/2024

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
								Label	ID	Description/Gu
	Colour Code Legend			The reason a completure collected may	Surveillance					dance
				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 Diagnostic testing. The reason why a sample was originally collected may differ from the	[GENEPIO:0100004]					
				reason why it was selected for sequencing, which should be indicated in the "purpose of						
Sample collection and processing	purpose_of_sampling	GENEPIO:0001198	collected.	sequencing" field. If there was presampling activity that would	Antimicrobial pre-treatment			3.0.0	3.0.0	3.0.0
Sample collection and processing	presampling_activity	GENEPIO:0100433	The activities or variables introduced upstream of sample collection that may affect the sample collected.	If thele was presamping activity that would affect the sample prior to collection (this is different than sample processing which happens after the sample is collected), provide the experimental activities by selfecting 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.	[GENEPIO:0100537]			3.0.0	3.0.0	3.0.0
			The details of the activities or		Chicken feed containing X					
Sample collection and processing	presampling_activity_details	GENEPIO:0100434	variables introduced upstream of sample collection that may affect the sample collected.	Briefly describe the presampling activity details using free text.	amount of novobiocin was fed to chickens for 72 hours prior to collection of litter.			3.0.0	3.0.0	3.0.0
	experimental _protocol_field	GENEPIO:0101029	The name of the overarching	Provide the name of the methodology used in	OneHealth2024_protocol					
Sample collection and processing			experimental methodology that was used to process the biomaterial.	your study. If available, provide a link to the protocol.				11.1.1	11.1.1	11.1.1
Sample collection and processing	experimental_specimen_role_type	GENEPIO:0100921	The type of role that the sample	Samples can play different types of roles in	Positive experimental control			11.1.1	11.1.1	11.1.1
Sample collection and processing			represents in the experiment.	experiments. A sample under study in one experiment may act as a control or be a replicate of another sample in another	[GENEPIO:0101018]			11.1.1	11.1.1	11.1.1
Sample collection and processing	specimen_processing	GENEPIO:0100435	The processing applied to samples post-collection, prior to further testing, characterization, or isolation procedures.	Provide the sample processing information by selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
bampic collection and processing	nucleic acid extraction method	GENEPIO:0100939	The process used to extract	Briefly describe the extraction method used.	Direct wastewater RNA			0.0.0	0.0.0	0.0.0
			genomic material from a sample.	,	capture and purification via the "Sewage, Salt, Silica and Salmonella (4S)" method v4					
Sample collection and processing		OENEDIO 0400770	The life word to entered account	Described the second of the se	found at			11.1.1	11.1.1	11.1.1
	nucleic acid extraction kit	GENEPIO:0100772	The kit used to extract genomic material from a sample	Provide the name of the genomic extraction kit used.	Kit					
Sample collection and processing								11.1.1	11.1.1	11.1.1
Sample collection and processing	geo_loc_name (country)	GENEPIO:0001181	The country of origin of the sample.	Provide the name of the country where the sample was collected. Use the controlled vocabulary provided in the template pick list. It the information is unknown or cannot be provided, provide a null value.	Canada [GAZ:00002560] f			3.0.0	3.0.0	3.0.0
			The state/province/territory of	Provide the name of the province/state/region where the sample was collected. If the information is unknown or cannot be provided,	British Columbia [GAZ:00002562]					
Sample collection and processing	geo_loc_name (state/province/region)	GENEPIO:0001185	origin of the sample. The name of a specific	provide a null value. Provide the name of the specific geographical	Credit River			3.0.0	3.0.0	3.0.0
Sample collection and processing	geo_loc_name (site)	GENEPIO:0100436	geographical location e.g. Credit River (rather than river).	site using a specific noun (a word that names a certain place, thing).	Credit River			3.0.0	3.0.0	3.0.0
Sample collection and processing	food_product_origin geo_loc_name (country)	GENEPIO:0100437	The country of origin of a food product.	If a food product was sampled and the food product was sampled and outside of Canada, provide the name of the country where the food product originated by selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Sample collection and processing	host_origin geo_loc_name (country)	GENEPIO:0100438	The country of origin of the host.	If a sample is from a human or animal host that originated from outside of Canada, provide the the name of the country where the host originated by selecting a value from the template pick list. If the information is unkn				3.0.0	3.0.0	3.0.0
			The latitude coordinates of the geographical location of sample	If known, provide the degrees latitude. Do NOT simply provide latitude of the institution if this is not where the sample was collected, not the centre of the city/region where the sample was collected as this falsely implicates an existing geographical location and creates data inaccuracies. If the information is unknown or cannot be provided, leave blank or						
Sample collection and processing	geo_loc latitude	GENEPIO:0100309	collection.	provide a null value.				3.0.0	3.0.0	3.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking	ID	Description (C. d
	Colour Code Legend							Label	ID	Description/Gui dance
Sample collection and processing	geo_loc longitude	GENEPIO:0100310	The longitude coordinates of the geographical location of sample collection.	If known, provide the degrees longitude. Do NOT simply provide longitude of the institution if this is not where the sample was collected, nor the centre of the city/region where the sample was collected as this falsely implicates an existing geographical location and creates data inaccuracies. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collection_date	GENEPIO:0001174	The date on which the sample was collected.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2020-10-30			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collection_date_precision	GENEPIO:0001177	The precision to which the "sample collection date" was provided.	Provide the precision of granularity to the "day", "month", or "year" for the date provided in the "sample collection date" field. The "sample collection date" will be truncated to the precision specified upon export, "day" for "YYYY-MM-DD", "month" for "YYYY-MM", or "year" for "YYYY".	day [UO:0000033]			7.6.4	7.6.4	7.6.4
Sample collection and processing	sample_received_date	GENEPIO:0001179	The date on which the sample was received.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2020-11-15			3.0.0	3.0.0	3.0.0
Sample collection and processing	original_sample_description	GENEPIO:0100439	The original sample description provided by the sample collector.	Provide the sample description provided by the original sample collector. The original description is useful as it may provide further details, or can be used to clarify higher level classifications.	RTE Prosciutto from deli			3.0.0	3.0.0	3.0.0
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.	If applicable, select the standardized term and ontology ID for the environmental site from the picklist provided. Multiple values can be provided, separated by a semi-colon.				3.0.0	3.0.0	3.0.0
Sample collection and processing	animal_or_plant_population	GENEPIO:0100443	The type of animal or plant population inhabiting an area.	This field should be used when a sample is taken from an environmental location inhabited by many individuals of a specific type, rather than describing a sample taken from one particular host. If applicable, provide the standardized term and ontology ID for the animal or plant population name. The standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/genepio. If not applicable, leave blank.				3.0.0	3.0.0	3.0.0
Sample collection and processing	environmental_material	GENEPIO:0001223	A substance obtained from the natural or man-made environment e.g. soil, water, sewage, door handle, bed handrail, face mask.	If applicable, select the standardized term and ontology ID for the environmental material from the picklist provided. Multiple values can be provided, separated by a semi-colon.	[ENVO:00002001]; Broom			3.0.0	3.0.0	3.0.0
Sample collection and processing	anatomical_material	GENEPIO:0001223	A substance obtained from an anatomical part of an organism e.g. tissue, blood.	An anatomical material is a substance taken from the body. 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	Tissue [UBERON:0000479]; Blood [UBERON:0000178]			3.0.0	3.0.0	3.0.0
Sample collection and processing	body_product	GENEPIO:0001216	A substance excreted/secreted from an organism e.g. feces, urine, sweat.	A body product is a substance produced by the body but meant to be excreted/secreted (i.e. not part of the body). If applicable, select the standardized term and ontology ID for the body product from the picklist provided. Multiple values can be provided, separated by a semi-colon.	Feces [UBERON:0001988]; Urine [UBERON:0001088]			3.0.0	3.0.0	3.0.0
Sample collection and processing	anatomical part	GENEPIO:0001214	An anatomical part of an organism e.g. oropharynx.	An anatomical part is a structure or location in the body. 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.				3.0.0	3.0.0	3.0.0
Sample collection and processing	anatomical_part anatomical_region	GENEPIO:0001214 GENEPIO:0100700	A 3D region in space without well-defined compartmental boundaries.	semi-coion. This field captures more granular spatial information on a host anatomical part e.g. dorso-lateral region vs back. Select a term from the picklist.	Dorso-lateral region [BSPO:0000080]			7.6.4	7.6.4	7.6.4
Sample collection and processing	food_product	GENEPIO:0100444	A material consumed and digested for nutritional value or enjoyment.	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.	Feather meal [FOODON:00003927]; Bone meal [ENVO:02000054]; Chicken breast [FOODON:00002703]			3.0.0	3.0.0	3.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label D	eprecated ID	Version Tracking Label	ID	Description/Cu
	Colour Code Legend							Labei	ID	Description/Gui dance
			Any characteristic of the food product pertaining to its state, processing, a label claim, or	Provide any characteristics of the food product including whether it has been cooked, processed, preserved, any known information about its state (e.g. raw, ready-to-eat), any known information about its containment (e.g. canned), and any information about a label	Food (chopped) [FOODON:00002777]; Ready-to-eat (RTE) [FOODON:03316636]					
Sample collection and processing	food_product_properties	GENEPIO:0100445	implications for consumers.	claim (e.g. organic, fat-free). Provide the common name of the animal. If not				3.0.0	3.0.0	3.0.0
Sample collection and processing	animal_source_of_food	GENEPIO:0100446	The animal from which the food product was derived.	applicable, leave blank. Multiple entries can be provided, separated by a comma.				3.0.0	3.0.0	3.0.0
Sample collection and processing	food_product_production_stream	GENEPIO:0100699	A production pathway incorporating the processes, material entities (e.g. equipment, animals, locations), and conditions that participate in the generation of a food commodity.	Provide the name of the agricultural production stream from the picklist.	Beef cattle production stream [FOODON:03000452]	production_stream		8.8.7	7.6.4	8.8.7
Sample collection and processing	food_packaging	GENEPIO:0100099	The type of packaging used to contain a food product.	If known, provide information regarding how the food product was packaged.	Plastic tray or pan [FOODON:03490126]	production_stream		3.0.0	3.0.0	3.0.0
Sample collection and processing	food_quality_date	GENEPIO:0100615	A date recommended for the use	This date is typically labeled on a food product as "best if used by", best by", "use by", or "freeze by" e.g. 5/24/2020. If the date is known, leave blank or provide a null value.				6.4.2	6.4.2	6.4.2
Sample collection and processing	food_packaging_date	GENEPIO:0100616	A food product's packaging date as marked by a food manufacturer or retailer.	The packaging date should not be confused with, nor replaced by a Best Before date or other food quality date. If the date is known, leave blank or provide a null value.	2020-05-25			6.4.2	6.4.2	6.4.2
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]			3.0.0	3.0.0	3.0.0
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.	Rinsing for specimen collection [GENEPIO_0002116]			3.0.0	3.0.0	3.0.0
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			11.1.1	11.1.1	11.1.1
2	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]			11.1.1	11.1.1	11.1.1
Sample collection and processing Sample collection and processing	residual_sample_status	GENEPIO:0101090	collected.					11.1.1	11.1.1	11.1.1
			A specification of the way that a	Provide a description of how the same was	Frozen at -20C					
Sample collection and processing	sample_storage_method	GENEPIO:0100448		stored. Provide a description of the material or matrix				3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_storage_medium sample_storage_duration_value	GENEPIO:0100449 GENEPIO:0101014	sample is stored. The numerical value of the time	used to store the sample. Provide the numerical value of time.	PBS + 20% glycerol 5			3.0.0	3.0.0	3.0.0
Sample collection and processing			measurement during which a sample is in storage.					11.1.1	11.1.1	11.1.1
Sample collection and processing	sample_storage_duration_unit	GENEPIO:0101015	storage duration.	Provide the units from the pick list.	Day [UO:0000033]			11.1.1	11.1.1	11.1.1
Sample collection and processing	nucleic_acid_storage_duration_value	GENEPIO:0101085	The numerical value of the time measurement during which the extracted nucleic acid is in storage.	Provide the numerical value of time.	5			11.1.1	11.1.1	11.1.1
Sample collection and processing	nucleic_acid_storage_duration_unit	GENEPIO:0101086	The units of a measured extracted nucleic acid storage duration.	Provide the units from the pick list.	Year [UO:0000036]			11.1.1	11.1.1	11.1.1
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 data			3.0.0	3.0.0	3.0.0
· •			Detailed information regarding	provide context for interpreting genomic	Pooled metagenomes containing extended spectrum beta-lactamase (ESBL)					
Sample collection and processing	available_data_type_details	GENEPIO:0101023	other available data types.	sequence data.	bacteria			9.0.0	9.0.0	9.0.0
Environmental conditions and measurements										
Sample collection and processing	water_depth	GENEPIO:0100440	The depth of some water.	only (without units).	5			3.0.0	3.0.0	9.0.0
	water_depth_units	GENEPIO:0101025	The units of measurement for water depth.	Provide the units of measurement for which the depth was recorded.	m					9.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version		
Parent Class	rieid	Ontology Identifier	Definition	Guidance	Examples			Tracking Label	ID	Description/Gui
	Colour Code Legend									dance
Sample collection and processing	sediment_depth	GENEPIO:0100697	The depth of some sediment.	Provide the numerical depth only of the sediment (without units).	2			7.6.4	7.6.4	9.0.0
sample collection and processing	sediment_depth_units	GENEPIO:0101026	The units of measurement for sec	Provide the units of measurement for which the depth was recorded.	m			9.0.0	9.0.0	9.0.0
ample collection and processing	air temperature	GENEPIO:0100441	The temperature of some air.	Provide the numerical value for the temperature of the air (without units).	25			3.0.0	3.0.0	9.0.0
			The units of measurement for air	Provide the units of measurement for which	celsius					
Sample collection and processing	air_temperature_units	GENEPIO:0101027	temperature.	the temperature was recorded. Provide the numerical value for the	4			9.0.0	9.0.0	9.0.0
Sample collection and processing	water_temperature	GENEPIO:0100698	The temperature of some water.	temperature of the water (without units).	celsius			7.6.4	7.6.4	9.0.0
sample collection and processing	water_temperature_units	GENEPIO:0101028	The units of measurement for water temperature.	Provide the units of measurement for which the temperature was recorded.				9.0.0	9.0.0	9.0.0
			The state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain,	Provide the weather conditions at the time of	Rain [ENVO:01001564]					
ample collection and processing	weather_type	GENEPIO:0100442	etc.	sample collection.				3.0.0	3.0.0	3.0.0
lost information		GENEPIO:0001268		If the sample is directly from a host, either a	Cow [NCBITaxon:9913];					
lost information	host (common name)	GENEPIO:0001386	The commonly used name of the host.	common or scientific name must be provided (although both can be included, if known). If known, provide the common name.	Chicken [NCBITaxon:9913], Human [NCBITaxon:9606]			3.0.0	3.0.0	3.0.0
			The taxonomic, or scientific name	If the sample is directly from a host, either a common or scientific name must be provided (although both can be included, if known). If known, select the scientific name from the	Bos taurus [NCBITaxon:9913]; Homo sapiens [NCBITaxon:9103]			200	200	200
lost information	host (scientific name)	GENEPIO:0001387	of the host. The biotype resulting from	picklist provided.	Sea ecotype			3.0.0	3.0.0	3.0.0
lost information	host (ecotype)	GENEPIO:0100450	selection in a particular habitat,	Provide the name of the ecotype of the host organism.				3.0.0	3.0.0	3.0.0
			A breed is a specific group of domestic animals or plants having homogeneous appearance, homogeneous behavior, and other characteristics that distinguish it from other animals or plants of the same species and that were arrived at through selective	Provide the name of the breed of the host						
lost information	host (breed)	GENEPIO:0100451	breeding. The name of the host at a certain	organism.	Calf [FOODON:03411349]			3.0.0	3.0.0	3.0.0
lost information	host (food production name)	GENEPIO:0100452	stage of food production, which may depend on its age or stage of sexual maturity.	Select the host's food production name from the pick list.	Call [1 OODON:03411349]			3.0.0	3.0.0	3.0.0
iost information	nost (rood production name)	GENET 10:0100432	Age of host at the time of	Select the corresponding host age bin from the	First summer			5.0.0	0.0.0	5.0.0
lost information	host_age_bin	GENEPIO:0001394	sampling, expressed as an age group.	pick list provided in the template. If not available, provide a null value or leave blank.	[GENEPIO:0100685]			7.6.4	7.6.4	7.6.4
			The name of the disease	This field is only required if the Pathogen.cl package was selected. If the host was sick, provide the name of the disease. The standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/doid if the	mastitis, gastroenteritis					
lost information	host_disease	GENEPIO:0001391	experienced by the host.	disease is not known, put "missing".				3.0.0	3.0.0	3.0.0
strain and isolation information		GENEPIO:0100453		1=	1					
Namin and in classical information		OENEDIO 040045	The laboratory method used to grow, prepare, and/or isolate the	Provide the name and version number of the microbiological method. The ID of the method is also acceptable if the ID can be linked to the	MFHPB-30			200	200	200
strain and isolation information	microbiological_method	GENEPIO:0100454 GENEPIO:0100455	microbial isolate. The strain identifier.	laboratory that created the procedure. A population or type of organisms that is genetically different from others of the same species and possessing a set of defined characteristics. If the isolate represents or is derived from, a lab reference strain or strain from a type culture collection, provide the strain identifier.	K12			3.0.0	3.0.0	3.0.0
strain and isolation information	isolate_ID	GENEPIO:0100456		Provide the isolate ID created by the lab that first isolated the isolate (i.e. the original isolate ID). If the information is unknown or cannot be provided, leave blank or provide a null value. It only an alternate isolate ID is known (e.g. the ID from your lab, if your lab did not isolate the isolate from the original sample), make asure to include it in the alternative jsolate. ID field.				3.0.0	3.0.0	3.0.0

						Deprecated Label	Deprecated ID	Version		
Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples			Tracking Label	ID	Description/Gui
	Colour Code Legend	_						Label	טו	dance
			An alternative isolate_ID assigned to the isolate by	Alternative isolate IDs should be provided in the in a prescribed format which consists of the ID followed by square brackets (no space in between the ID and bracket) containing the short form of ID provider's agency name i.e. ID[short organization code]. Agency short forms include the following: Public Health Agency of Canadia: PHAC Canadian Food Inspection Agency: CFIA Agriculture and Agri-Food Canada: AFC Fisheries and Oceans Canada: DFO Environment and Climate Change Canada: ECC Health Canada: HC An example of a properly formatted alternative isolate identifier would be e.g. XY24567(CFIA) Multiple alternative isolate identifier would be	GHIF3456[PHAC]; QWICK222[CFIA]					
Strain and isolation information	alternative_isolate_ID	GENEPIO:0100457	another organization.	provided, separated by semi-colons.	OUD ON 4500			3.0.0	3.0.0	3.0.0
			The identifier assigned to a progenitor isolate derived from an isolate that was directly obtained	If your sequence data pertains to progeny of	SUB_ON_1526					
Strain and isolation information	progeny_isolate_ID	GENEPIO:0100458	from a sample.	progeny_isolate_ID.				3.0.0	3.0.0	3.0.0
Strain and isolation information	IRIDA_isolate_ID	GENEPIO:0100459	The identifier of the isolate in the IRIDA platform.	Provide the "sample ID" used to track information linked to the isolate in IRIDA. IRIDA sample IDs should be unqiue to avoid ID olash. This is very important in large Projects, especially when samples are shared from different organizations. Download the IRIDA sample ID and add it to the sample data in your spreadsheet as part of good data management practices.				3.0.0	3.0.0	3.0.0
Strain and isolation information	IRIDA_project_ID	GENEPIO:0100460	The identifier of the Project in the iRIDA platform.	Provide the IRIDA "project ID".	666			3.0.0	3.0.0	3.0.0
	IKIDA_project_iD		The name of the agency, organization or institution with which the individual who performed the isolation	Provide the INDA project to Provide the name of the agency, organization or institution that isolated the original isolate in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or	Canada (PHAC) [GENEPIO:0100551]					3.0.0
Strain and isolation information	isolated_by	GENEPIO:0100461	procedure is affiliated.	provide a null value.				3.0.0	3.0.0	3.0.0
Strain and isolation information	isolated_by_laboratory_name	GENEPIO:0100462	The specific laboratory affiliation of the individual who performed the isolation procedure.	Provide the name of the specific laboratory that that isolated the original isolate (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Topp Lab			3.0.0	3.0.0	3.0.0
			The name or title of the contact responsible for follow-up	Provide the name of an individual or their job title. As personnel turnover may render the contact's name obsolete, it is prefereable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided,						
Strain and isolation information	isolated_by_contact_name	GENEPIO:0100463	regarding the isolate.	leave blank or provide a null value. Provide the email associated with the listed	enterics@lab.ca			3.0.0	3.0.0	3.0.0
Strain and isolation information	isolated_by_contact_email	GENEPIO:0100464	The email address of the contact responsible for follow-up regarding the isolate.	contact. As personnel furmover may render an individual's email obsolete, it is more prefereable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Strain and isolation information	isolation_date	GENEPIO:0100465	The date on which the isolate was isolated from a sample.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2020-10-30			3.0.0	3.0.0	3.0.0
			The date on which the isolate	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or	2020-11-15					
Strain and isolation information	isolate_received_date	GENEPIO:0100466	was received by the laboratory.	"YYYY".	Salmonella enterica subsp.			3.0.0	3.0.0	3.0.0
Strain and isolation information	organism	GENEPIO:0001191	Taxonomic name of the organism.	Put the genus and species (and subspecies if applicable) of the bacteria, if known. The standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/ncbitaxon.	enterica [NCBITaxon:59201]			3.0.0	3.0.0	3.0.0
Strain and isolation information	taxonomic_identification_process	GENEPIO:0100583	The type of planned process by which an organismal entity is associated with a taxon or taxa.	Provide the type of method used to determine the taxonomic identity of the organism by selecting a value from the pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.	PCR assay [OBI:0002740]			4.2.1	4.2.1	4.2.1
Strain and isolation information	taxonomic_identification_process_details	GENEPIO:0100584	The details of the process used to determine the taxonomic identification of an organism.	Briefly describe the taxonomic identififcation method details using free text.	Biolog instrument			4.2.1	4.2.1	4.2.1

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label De	precated ID	Version Tracking		
	Colour Codo Logand	0,						Label	ID	Description/Gu
	Colour Code Legend			Only include this information if it has been	Heidelberg					dance
				determined by traditional serological methods						
Strain and isolation information	serovar	GENEPIO:0100467	The serovar of the organism.	or a validated in silico prediction tool e.g. SISTR.				3.0.0	3.0.0	3.0.0
			-	If the serovar was determined via traditional	SISTR 1.0.1					
				serotyping methods, put "Traditional serotyping". If the serovar was determined via						
Strain and isolation information		OENEDIO 0400400	The method used to determine	in silico methods, provide the name and				0.00	200	200
Strain and isolation information Strain and isolation information	serotyping_method phagetype	GENEPIO:0100468 GENEPIO:0100469	the serovar. The phagetype of the organism.	version number of the software. Provide if known. If unknown, put "missing".	4'	7		3.0.0	3.0.0	3.0.0
Sequence information	phagotype	GENEPIO:0001441	The phagetype of the organism.	Torido II Milonii II dindromi, pat miloniig .				0.0.0	0.0.0	0.0.0
·				Every "library ID" from a single submitter must	LS_2010_NP_123446					
			The user-specified identifier for	be unique. It can have any format, but we suggest that you make it concise, unique and						
Sequence information	library_ID	GENEPIO:0001448	the library prepared for sequencing.	consistent within your lab, and as informative as possible.				3.0.0	3.0.0	3.0.0
sequence information	library_iD	GENEPIO.0001446	sequencing.	Provide the name of the agency, organization	Public Health Agency of			3.0.0	3.0.0	3.0.0
			The name of the agency,	or institution that performed the sequencing in	Canada (PHAC)					
			organization or institution responsible for sequencing the	full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank o						
Sequence information	sequenced_by	GENEPIO:0100416	isolate's genome.	provide a null value.				3.0.0	3.0.0	3.0.0
				Provide the name of the specific laboratory that that performed the sequencing in full	Topp Lab					
				(avoid abbreviations). If the information is						
Sequence information	sequenced_by_laboratory_name	GENEPIO:0100470	of the responsible for sequencing the isolate's genome.	unknown or cannot be provided, leave blank o provide a null value.	r			3.0.0	3.0.0	3.0.0
'			Ŭ	Provide the name of an individual or their job	Enterics Lab Manager					
				title. As personnel turnover may render the contact's name obsolete, it is more prefereable	_					
				to provide a job title for ensuring accuracy of						
			The name or title of the contact responsible for follow-up	information and institutional memory. If the information is unknown or cannot be provided,						
Sequence information	sequenced_by_contact_name	GENEPIO:0100471	regarding the sequence.	leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
				Provide the email associated with the listed contact. As personnel turnover may render an	enterics@lab.ca					
				individual's email obsolete, it is more						
				prefereable to provide an address for a position or lab, to ensure accuracy of						
			The email address of the contact responsible for follow-up	information and institutional memory. If the information is unknown or cannot be provided,						
Sequence information	sequenced_by_contact_email	GENEPIO:0100422	regarding the sequence.	leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
				Provide the reason for sequencing by	Research					
				selecting a value from the following pick list: Diagnostic testing, Surveillance, Monitoring,	[GENEPIO:0100003]					
				Clinical trial, Field experiment, Environmental testing. If the information is unknown or canno						
			The reason that the sample was		·					
Sequence information	purpose_of_sequencing	GENEPIO:0001445	sequenced.	value.	111D ODD! (D1 1050)			3.0.0	3.0.0	3.0.0
			The name of the project/initiative/program for	Provide the name of the project and/or the project ID here. If the information is unknown	AMR-GRDI (PA-1356)					
Sequence information	sequencing_project_name	GENEPIO:0100472	which sequencing was performed.	or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Sequence information	sequenting_project_name	GENEFIO.0100472	periornieu.	Provide the name of the company that created	Illumina [GENEPIO:0001923]			3.0.0	3.0.0	3.0.0
				the sequencing instrument by selecting a value from the template pick list. If the						
			The platform technology used to	information is unknown or cannot be provided,						
Sequence information	sequencing_platform	GENEPIO:0100473	perform the sequencing.	leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
				Provide the model sequencing instrument by selecting a value from the template pick list. If	[GENEPIO:0100117]					
Sequence information	sequencing instrument	GENEPIO:0001452	The model of the sequencing instrument used.	the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
ocquence inionnation	sequencing_instrument	GENEPIO:0001452 GENEPIO:0100997	The overarching sequencing	Example Guidance: Provide the name of the	whole genome sequencing			3.0.0	3.0.0	3.0.0
		-	methodology that was used to	DNA or RNA sequencing technology used in	assay [OBI:0002117]					
Sequence information	sequencing_assay_type		determine the sequence of a biomaterial.	your study. If unsure refer to the protocol documentation, or provide a null value.				10.0.0	10.0.0	10.0.0
			The name of the DNA library	Devide the second of the liberary of the						
Sequence information	library_preparation_kit	GENEPIO:0001450	preparation kit used to generate the library being sequenced.	Provide the name of the library preparation kit used.	Nextera XT			3.0.0	3.0.0	3.0.0
	_	GENEPIO:0100843	The length of the DNA fragment	Provide the fragment length in base pairs (do	400)				
			generated by mechanical shearing or enzymatic digestion	not include the units).						
Sequence information	DNA fragment length		for the purposes of library							
Sequence information	DNA fragment length	GENEPIO:0100966	preparation. The molecular technique used to	Provide the name of the enrichment method	Hybrid selection method					
		32.120.0100300	selectively capture and amplify specific regions of interest from a		(bait-capture) [GENEPIO:0001950]					

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gui dance
Sequence information	genomic target enrichment method details	GENEPIO:0100967	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 bail-capture methods were used for enrichment, provide the panel name and version number (or a URL providing that information).	enrichment was done using Twist's respiratory virus research panel: https://www.twistbioscience.co m/products/ngs/fixed-panels/re spiratory-virus-research-panel					
Sequence information	amplicon pcr primer scheme	GENEPIO:0001456	The specifications of the primers (primer sequences, binding positions, fragment size generated etc) used to generate the amplicons to be sequenced.	Provide the name and version of the primer scheme used to generate the amplicons for sequencing.	artic v3					
Sequence information	amplicon size	GENEPIO:0001449	The length of the amplicon generated by PCR amplification.	Provide the amplicon size expressed in base pairs.	300					
Sequence information	sequencing flow cell version	GENEPIO:0101084	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					
Sequence information	sequencing_protocol	GENEPIO:0001454	The protocol or method used for sequencing.	Provide the name and version of the procedure or protocol used for sequencing. You can also provide a link to a protocol online.	https://www.protocols.io/view/n cov-2019-sequencing-protocol- bbmuik6w?version_warning=n Q			3.0.0	3.0.0	3.0.0
Sequence information	r1_fastq_filename	GENEPIO:0001476	The user-specified filename of the r1 FASTQ file.	Provide the r1 FASTQ filename.	ABC123_S1_L001_R1_001.fa stq.gz			3.0.0	3.0.0	3.0.0
Sequence information	r2_fastq_filename	GENEPIO:0001477	The user-specified filename of the r2 FASTQ file.	Provide the r2 FASTQ filename.	ABC123_S1_L001_R2_001.fa stq.gz			3.0.0	3.0.0	3.0.0
Sequence information	fast5_filename	GENEPIO:0001480	The user-specified filename of the FAST5 file.	Provide the FAST5 filename.	batch1a_sequences.fast5			3.0.0	3.0.0	3.0.0
Sequence information	assembly_filename	GENEPIO:0001461	The user-defined filename of the FASTA file.	Provide the FASTA filename.	pathogenassembly123.fasta			3.0.0	3.0.0	3.0.0
Bioinformatics and QC metrics		GENEPIO:0001457							_	
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.	Providing the name of the method used for quality control is very important for interpreting the rest of the QC information. Method names can be provided as the name of a pipeline or a link to a Gill-tub repository. Multiple methods should be listed and separated by a semi-colon. Do not include QC tags in other fields if no method name is provided.				11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	quality control method version	GENEPIO:0100558	The version number of the method used to assess whether a sequence passed a predetermined quality control threshold.	Methods updates can make big differences to their outputs. Provide the version of the method used for quality control. The version can be expressed using whatever convention the developer implements (e.g. date, semantic versioning). If multiple methods were used, record the version numbers in the same order as the method names. Separate the version numbers using a semi-colon.				11.1.1	11.1.1	11.1.1
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			11.1.1	11.1.1	11.1.1
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			11.1.1	11.1.1	11.1.1
District and OO matrice		OENEDIO 0400504	The details surrounding a low quality determination in a quality	Provide notes or details regarding QC results	CT value of 39. Low viral load. Low DNA concentration after			11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics Bioinformatics and QC metrics	quality control details raw sequence data processing method	GENEPIO:0001458	The method used for raw data processing such as removing barcodes, adapter trimming, filtering etc.	using free text. Raw data processing can have a significant impact on data quality and how it can be used. Provide the names and version numbers of software 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.	amplification. Porechop 0.2.3			11.1.1	11.1.1	11.1.1
			The method used to remove host reads from the pathogen	Provide the name and version number of the						
Diginformation and OC matrice	dehecting method	GENERIO 0004450			Nanastrinnar			11 1 1	11 1 1	11 1 1
Bioinformatics and QC metrics Bioinformatics and QC metrics	dehosting method sequence assembly software name	GENEPIO:0001459 GENEPIO:0100825	sequence.	software used to remove host reads. Provide the name of the software used to assemble the sequence.	Nanostripper SPAdes Genome Assembler, Canu, wtdbg2, velvet			11.1.1	11.1.1	11.1.1

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description/Gui
	Colour Code Legend							Labor	10	dance
			The name of the software used to							
Bioinformatics and QC metrics	consensus sequence software name	GENEPIO:0001463	generate the consensus sequence.	Provide the name of the software used to generate the consensus sequence.	iVar			11.1.1	11.1.1	11.1.1
			The version of the software used							
Bioinformatics and QC metrics	consensus sequence software version	GENEPIO:0001469	to generate the consensus sequence.	Provide the version of the software used to generate the consensus sequence.	1.3			11.1.1	11.1.1	11.1.1
bioinionnates and go metros	conscisus sequence sortware version	GENET 10.0001403	The percentage of the reference	generate the consensus sequence.	1.0			11.1.1	11.1.1	
			genome covered by the							
Bioinformatics and QC metrics	breadth of coverage value	GENEPIO:0001472	sequenced data, to a prescribed depth.	Provide value as a percent.	95			11.1.1	11.1.1	11.1.1
	3		The average number of reads	·						
Riginformation and OC matrice	denth of anyonage value	CENEDIO:0001474	representing a given nucleotide	Dravida value as a fold of saverage	400			11 1 1	44.4.4	44.4.4
Bioinformatics and QC metrics	depth of coverage value	GENEPIO:0001474	in the reconstructed sequence. The threshold used as a cut-off	Provide value as a fold of coverage.	400			11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	depth of coverage threshold	GENEPIO:0001475	for the depth of coverage.	Provide the threshold fold coverage.	100			11.1.1	11.1.1	11.1.1
			The percentage of expected							
			genes identified in the genome being sequenced. Missing genes							
			indicate missing genomic regions	Provide the genome completeness as a						
Bioinformatics and QC metrics	genome completeness	GENEPIO:0100844	(incompleteness) in the data.	percent (no need to include units).	85			11.1.1	11.1.1	11.1.1
			The number of total base pairs generated by the sequencing	Provide a numerical value (no need to include						
Bioinformatics and QC metrics	number of base pairs sequenced	GENEPIO:0001482	process.	units).	387566			11.1.1	11.1.1	11.1.1
			The total number of non-unique							
Bioinformatics and QC metrics	number of total reads	GENEPIO:0100827	reads generated by the sequencing process.	Provide a numerical value (no need to include units).	423867			11.1.1	11.1.1	11.1.1
			The number of unique reads							
n:		OFNERIO 040000	generated by the sequencing	Provide a numerical value (no need to include	0.4000					
Bioinformatics and QC metrics	number of unique reads	GENEPIO:0100828	process.	units).	248236			11.1.1	11.1.1	11.1.1
			The threshold used as a cut-off for the minimum length of a read	Provide a numerical value (no need to include						
Bioinformatics and QC metrics	minimum post-trimming read length	GENEPIO:0100829	after trimming.	units).	150			11.1.1	11.1.1	11.1.1
			The number of contigs							
Bioinformatics and QC metrics	number of contigs	GENEPIO:0100937	(contiguous sequences) in a sequence assembly.	Provide a numerical value.	10			11.1.1	11.1.1	11.1.1
	9		The percentage of the assembly							
Disinformation and OO matrice		OFNEDIO-0400000		Provide a numerical value (no need to include	2				44.4.4	44.4.4
Bioinformatics and QC metrics	percent Ns across total genome length	GENEPIO:0100830	(Ns). The number of ambiguous bases	units).				11.1.1	11.1.1	11.1.1
			(Ns) normalized per 100	Provide a numerical value (no need to include						
Bioinformatics and QC metrics	Ns per 100 kbp	GENEPIO:0001484	kilobasepairs (kbp).	units).	342			11.1.1	11.1.1	11.1.1
			The length of the shortest read that, together with other reads,							
			represents at least 50% of the							
Riginformatics and OC matrice	NEO	CENEDIO:0100039	nucleotides in a set of	Dravide the NEO value in Mh	150			11 1 1	44.4.4	11 1 1
Bioinformatics and QC metrics	N50	GENEPIO:0100938	sequences. The percent of the total number	Provide the N50 value in Mb.	150			11.1.1	11.1.1	11.1.1
			of reads identified as							
			contamination (not belonging to the target organism) in a	Provide the percent contamination value (no						
Bioinformatics and QC metrics	percent read contamination	GENEPIO:0100845	sequence dataset.	need to include units).	2			11.1.1	11.1.1	11.1.1
			The length of the genome							
			generated by assembling reads using a scaffold or by	Provide a numerical value (no need to include						
Bioinformatics and QC metrics	sequence assembly length	GENEPIO:0100846	reference-based mapping.	units).	34272			11.1.1	11.1.1	11.1.1
			The length of the genome							
Bioinformatics and QC metrics	consensus genome length	GENEPIO:0001483	defined by the most common nucleotides at each position.	Provide a numerical value (no need to include units).	38677			11.1.1	11.1.1	11.1.1
				Provide the accession number of the reference	e					
Bioinformatics and QC metrics	reference genome accession	GENEPIO:0001485	genome database entry.	genome.	NC_045512.2			11.1.1	11.1.1	11.1.1
			The method used to remove	Provide the deduplication software name						
Bioinformatics and QC metrics	deduplication method	GENEPIO:0100831	duplicated reads in a sequence read dataset.	followed by the version, or a link to a tool or method.	DeDup 0.12.8			11.1.1	11.1.1	11.1.1
				Further details regarding the methods used to						
				process raw data, and/or generate						
				assemblies, and/or generate consensus sequences can. This information can be						
				provided in an SOP or protocol or pipeline/workflow. Provide the name and						
			A description of the overall	version number of the protocol, or a GitHub	https://github.com/phac-nml/nc					
Bioinformatics and QC metrics	bioinformatics protocol	GENEPIO:0001489	bioinformatics strategy used.	link to a pipeline or workflow.	ov2019-artic-nf			11.1.1	11.1.1	11.1.1
Taxonomic identification		CENEDIO 0404000								
information		GENEPIO:0101082	The name of the software used to							
			map sequence reads to a							
Tovonomia identification informati	road manning acting	CENEDIO 0400000	reference genome or set of	Provide the name of the read mapping	Deutie 2 DIMA MENA T			44.4.4	44.4.4	44.4.4
Taxonomic identification information	read mapping software name	GENEPIO:0100832	reference genes.	software.	Bowtie2, BWA-MEM, TopHat			11.1.1	11.1.1	11.1.1

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking	ID	Description (C
	Colour Code Legend							Label	ID	Description/G dance
			The version of the software used							
			to map sequence reads to a reference genome or set of	Provide the version number of the read						
axonomic identification information	read mapping software version	GENEPIO:0100833	reference genes.	mapping software.	2.5.1			11.1.1	11.1.1	11.1.1
			The name of the taxonomic							
axonomic identification information		GENEPIO:0100834	reference database used to	Provide the name of the taxonomic reference database.	NCBITaxon			11.1.1	11.1.1	11.1.1
axonomic identification information	taxonomic reference database name	GENEPIO:0100834	identify the organism. The version of the taxonomic	database.	NCBHaxon			11.1.1	11.1.1	11.1.1
			reference database used to	Provide the version number of the taxonomic						
axonomic identification information	taxonomic reference database version	GENEPIO:0100835	identify the organism.	reference database.	1.3			11.1.1	11.1.1	11.1.1
			The filename of the report							
axonomic identification information	taxonomic analysis report filename	GENEPIO:0101074	containing the results of a taxonomic analysis.	Provide the filename of the report containing the results of the taxonomic analysis.	WWtax_report_Feb1_2024.do			11.1.1	11.1.1	11.1.1
	axonomic analysis report monamic	OLIVEI IO.OTOTOTT	and the distriction of the second	Providing the date that an analysis was						
				performed can help provide context for tool						
				and reference database versions. Provide the date that the taxonomic analysis was						
			The date a taxonomic analysis	performed in ISO 8601 format, i.e.						
axonomic identification information	taxonomic analysis date	GENEPIO:0101075	was performed.	"YYYY-MM-DD".	2024-02-01			11.1.1	11.1.1	11.1.1
			A description of the criteria used	Describe a description of the good grounding						
axonomic identification information	read mapping criteria	GENEPIO:0100836	to map reads to a reference sequence.	Provide a description of the read mapping criteria.	Phred score >20			11.1.1	11.1.1	11.1.1
Public repository information		GENEPIO:0100477								
				The name of the agency should be written out						
				in full, (with minor exceptions) and be	Change Canada (EC)					
			The name of the agency that	consistent across multiple submissions. If submitting specimens rather than sequencing	[GENEPIO:0100555]					
			submitted the sequence to a	data, please put the "National Microbiology						
ublic repository information	sequence_submitted_by	GENEPIO:0001159	database.	Laboratory (NML)".				3.0.0	3.0.0	3.0.0
				Provide the name of an individual or their job						
			The name or title of the contact	title. As personnel turnover may render the contact's name obsolete, it is prefereable to						
			responsible for follow-up	provide a job title for ensuring accuracy of						
			regarding the submission of the sequence to a repository or	information and institutional memory. If the information is unknown or cannot be provided,						
Public repository information	sequence_submitted_by_contact_name	GENEPIO:0100474	database.	leave blank or provide a null value.	Enterics Lab Manager			3.0.0	3.0.0	3.0.0
				The email address can represent a specific	RespLab@lab.ca					
N. I. I		OFNEDIO 0004405		individual or lab e.g. johnnyblogs@lab.ca, or				200	0.00	200
Public repository information	sequence_submitted_by_contact_email	GENEPIO:0001165	sequence.	RespLab@lab.ca If the isolate is associated with a published	PMID: 33205991			3.0.0	3.0.0	3.0.0
				work which can provide additional information,						
				provide the PubMed identifier of the						
Public repository information	publication ID	GENEPIO:0100475	The identifier for a publication.	publication. Other types of identifiers (e.g. DOI) are also acceptable.				3.0.0	3.0.0	3.0.0
abile repository information	publication_ib	GENETIO:0100470	The identifier for a publication.	If the sample is from a specific human or	Pathogen.env			0.0.0	0.0.0	5.5.5
				animal, put "Pathogen.cl". If the sample is from	ı					
			The attribute package used to structure metadata in an INSDC	an environmental sample including food, feed, production facility, farm, water source, manure						
Public repository information	attribute_package	GENEPIO:0100476	BioSample.	etc, put "Pathogen.env".				3.0.0	3.0.0	3.0.0
, ,			·	Required if submission is linked to a	PRJNA12345					
				BioProject. BioProjects are an organizing tool						
				that links together raw sequence data, assemblies, and their associated metadata. A						
				valid BioProject accession has prefix PRJN,						
			The INIONO	PRJE or PRJD, e.g., PRJNA12345 and is						
			the BioProject(s) to which the	created once at the beginning of a new sequencing project. Your laboratory can have						
Public repository information	bioproject_accession	GENEPIO:0001136	BioSample belongs.	one or many BioProjects.				3.0.0	3.0.0	3.0.0
				Store the accession returned from the	SAMN14180202					
			The identifier assigned to a	BioSample submission. NCBI BioSamples will have the prefix SAMN, whileEMBL- EBI						
Public repository information	biosample_accession	GENEPIO:0001139	BioSample in INSDC archives.	BioSamples will have the prefix SAMEA.				3.0.0	3.0.0	3.0.0
			The Sequence Read Archive		SRR11177792					
			(SRA), European Nucleotide Archive (ENA) or DDBJ							
			Sequence Read Archive (DRA)							
			identifier linking raw read data,	Store the accession assigned to the submitted						
			methodological metadata and quality control metrics submitted	"run". NCBI-SRA accessions start with SRR, EBI-ENA runs start with ERR and DRA						
Public repository information	SRA_accession	GENEPIO:0001142	to the INSDC.	accessions start with DRR.				3.0.0	3.0.0	3.0.0
•			The GenBank/ENA/DDBJ		MN908947.3					
			identifier assigned to the	Store the accession returned from a						
ublic repository information	GenBank_accession	GENEPIO:0001145		GenBank/ENA/DDBJ submission.				3.0.0	3.0.0	3.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gu
	Coloil Code Legena			Risk assessment requires detailed information regarding the quantities of a pathogen in a specified location, commodity, or environment. As such, it is useful for risk assessors to know what types of information are available through documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism", "Average count of hazard organism", "Average count	collected, Number of positive samples					uance
Risk assessment information	prevalence_metrics	GENEPIO:0100480	of the pathogen of interest obtained from a surveillance project.	indicator organism". You do not need to provide the actual values, just indicate that the information is available.				3.0.0	3.0.0	3.0.0
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.				3.0.0	3.0.0	3.0.0
Risk assessment information	stage_of_production	GENEPIO:0100482	The stage of food production.	Provide the stage of food production as free text.	Abattoir			3.0.0	3.0.0	3.0.0
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]			3.0.0	3.0.0	3.0.0
Risk assessment information	experiment_intervention_details	GENEPIO:0100484	The details of the experimental intervention applied in the food production system.	If an experimental intervention was applied in the survey, provide details in this field as free text.	2% cranberry solution mixed in feed			3.0.0	3.0.0	3.0.0
Antimicrobial resistance		GENEPIO:0100479								
Antimicrobial resistance	antimicrobial_agent_name	GENEPIO:0100521	The name of the agent that kills or slows the growth of microorganisms, including bacteria, viruses, fungi and protozoans.	The names of the drug have already been matched with measurement, breakpoint, and phenotype fields in the template. No need to add these unless the drug of interest is not present. Use the Term Request System to request the addition of other agents.	Amoxicillin-clavulanic [ARO:3003997]			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by	GENEPIO:0100511	The name of the organization that performed the antimicrobial resistance testing.	Provide the name of the agency, organization or institution that performed the AMR testing, in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Canadian Food Inspection Agency (CFIA) [GENEPIO:0100552]			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by_laboratory_name	GENEPIO:0100512	The name of the lab within the organization that performed the antimicrobial resistance testing.	Provide the name of the specific laboratory that performed the AMR testing (avoid abbreviations). If the information is unknown o cannot be provided, leave blank or provide a null value.	Topp Lab			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by_contact_name	GENEPIO:0100513	The name of the individual or the individual's role in the organization that performed the antimicrobial resistance testing.	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.	Enterics Lab Manager			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR testing by contact email	GENEPIO:0100514	The email of the individual or the individual's role in the organization that performed the antimicrobial resistance testing.	Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more preferable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank o provide a null value.				3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_date	GENEPIO:0100515	The date the antimicrobial resistance testing was performed.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2022-04-03	3		3.0.0	3.0.0	3.0.0
Antimicrobial resistance	antimicrobial_resistance_phenotype		The antimicrobial resistance phenotype, as determined by the antibiotic susceptibility measurement and testing standard for this antibiotic	Select a phenotype from the pick list provided.	Susceptible antimicrobial phenotype [ARO:3004302]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial measurement		The measured value of antimicrobial resistance.	This field should only contain a number (either an integer or a number with decimals).	4	ı		7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_measurement_units		The units of the antimicrobial resistance measurement.	Select the units from the pick list provided. Use the Term Request System to request the addition of other units if necessary.	ug/mL [UO:0000274]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial measurement sign		The qualifier associated with the antibiotic susceptibility measurement	Select the comparator sign from the pick list provided. Use the Term Request System to request the addition of other signs if necessary.	greater than (>) [GENEPIO:0001006]			7.7.5		3.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description (Qui
	Colour Code Legend							Label	טו	Description/Gui dance
Antimicrobial resistance	antimicrobial_laboratory_typing_method		The general method used for antibiotic susceptibility testing.	Select a typing method from the pick list provided. Use the Term Request System to request the addition of other methods if necessary.	Broth dilution [ARO:3004397]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_laboratory_typing_platform		The brand/platform used for antibiotic susceptibility testing	Select a typing platform from the pick list provided. Use the Term Request System to request the addition of other platforms if necessary.	Sensitire [ARO:3004402]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_laboratory_typing_platform_version		The specific name and version of the plate, panel, or other platform used for antibiotic susceptibility testing.	Include any additional information about the antimicrobial susceptibility test such as the drug panel details.	CMV3AGNF			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_vendor_name		The name of the vendor of the testing platform used.	Provide the full name of the company (avoid abbreviations).	Sensititre [ARO:3004402]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_testing_standard		The testing standard used for determination of resistance phenotype	Select a testing standard from the pick list provided.	Clinical Laboratory and Standards Institute (CLSI) [ARO:3004366]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial testing standard version		The version number associated with the testing standard used for determination of resistance phenotype	If applicable, include a version number for the testing standard used.	M100			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial testing standard details		The additional details associated	This information may include the year or location where the testing standard was published. If not applicable, leave blank.	27th ed. Wayne, PA: Clinical and Laboratory Standards Institute; 2017.			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial susceptible breakpoint		The maximum measurement, in the units specified in the "AMR_measurement_units" field, for a sample to be considered "sensitive" to this antibiotic	This field should only contain a number (either an integer or a number with decimals), since the "<=" qualifier is implied.	8			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_intermediate_breakpoint		The intermediate measurement(s), in the units specified in the "AMR measurement_units" field, where a sample would be considered to have an "intermediate" phenotype for this antibiotic		16			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_resistant_breakpoint		The minimum measurement, in the units specified in the "AMR_measurement_units" field, for a sample to be considered "resistant" to this antibiotic	This field should only contain a number (either an integer or a number with decimals), since the ">=" qualifier is implied.	32			7.7.5		3.0.0