Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking	ID	Docariation (C
	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.		Label	ID	Description/G dance
	field name in purple = recommended									
ample collection and processing	field name in white = optional	GENEPIO:0001268								
rample collection and processing	sample_collector_sample_ID	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	Alternative identifiers assigned to the sample	ABCD1234[PHAC];			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 sunknown or cannot be provided, leave blank of provide a null value.				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.	null value.	Topp Lab r			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collection_project_name	GENEPIO:0100429	The name of the project/initiative/program for which the sample was collected.	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 value.	Watershed Project (HA-120)			3.0.0	3.0.0	3.0.0
sample collection and processing	sample_plan_name	GENEPIO:0100430	The name of the study design for a surveillance project.	Provide the name of the sample plan used for sample collection. If the information is runknown or cannot be provided, leave blank or provide a null value.	Baseline Study in Broiler r Chicken			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_plan_ID	GENEPIO:0100431	The identifier of the study design for a surveillance project.	Provide the identifier of the sample plan used for sample collection. If the information is unknown or cannot be provided, leave blank o provide a null value.	r			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 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.	Ů			3.0.0	3.0.0	3.0.0
nample 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
Sample collection and processing	purpose_of_sampling	GENEPIO:0001198		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 reason why it was selected for sequencing, which should be indicated in the "purpose of sequencing" field.	Surveillance [GENEPIO:0100004]			3.0.0	3.0.0	3.0.0
ample collection and processing	purpose_or_sampling presampling_activity	GENEPIO:0100433	The activities or variables introduced upstream of sample collection that may affect the sample collected.	sequencing ised. If there was presampling 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 selecting one or more values from the template pick list. If the information is unknown or cannot be provided, leave blank for provide a null value.				3.0.0	3.0.0	3.0.0
Sample collection and processing	presampling_activity_details	GENEPIO:0100434	the sample collected.	Briefly describe the presampling activity details using free text.	to collection of litter.			3.0.0	3.0.0	3.0.0
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

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Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gu
	Colodii Code Legend		The country of origin of the	Provide the name of the country where the sample was collected. Use the controlled vocabulary provided in the template pick list. If the information is unknown or cannot be	Canada [GAZ:00002560]					dance
Sample collection and processing	geo_loc_name (country)	GENEPIO:0001181	sample.	provided, provide a null value.	D.W. I. G. I. I.			3.0.0	3.0.0	3.0.0
Sample collection and processing	geo_loc_name (state/province/region)	GENEPIO:0001185	The state/province/territory of origin of the sample.	Provide the name of the province/state/region where the sample was collected. If the information is unknown or cannot be provided, provide a null value.	British Columbia [GAZ:00002562]			3.0.0	3.0.0	3.0.0
			The name of a specific geographical location e.g. Credit		Credit River					
Sample collection and processing	geo_loc_name (site)	GENEPIO:0100436	River (rather than river).	a certain place, thing).  If a food product was sampled and the food	United States of America			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.	na roou product was sampled and in the tood product was manufactured outside of Canada, provide the name of the country where the food product originated by selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.	[GAZ:00002459]			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	South Africa [GAZ:00001094]			3.0.0	3.0.0	3.0.0
Sample collection and processing	geo_loc latitude	GENEPIO:0100309	The latitude coordinates of the geographical location of sample collection.	If known, provide the degrees latitude. Do NOT simply provide latitude 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.	38.98 N			3.0.0	3.0.0	3.0.0
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
<u> </u>			The date on which the sample	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or	2020-10-30					
Sample collection and processing  Sample collection and processing	sample_collection_date sample_collection_date_precision	GENEPIO:0001174  GENEPIO:0001177	The precision to which the "sample collection date" was provided.	"YYYY".  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" 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-MY".	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
			The original sample description	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	RTE Prosciutto from deli					
ample collection and processing	original_sample_description	GENEPIO:0100439	provided by the sample collector.  An environmental location may describe a site in the natural or built environment e.g. hospital,	If applicable, select the standardized term and ontology ID for the environmental site from the picklist provided. Multiple values can be	Poultry hatchery [ENVO:01001874]			3.0.0	3.0.0	3.0.0
ample collection and processing ample collection and processing	environmental_site water depth	GENEPIO:0001232 GENEPIO:0100440	wet market, bat cave.  The depth of some water.	provided, separated by a semi-colon.  Provide the depth of water with a value and unit.	5m			3.0.0	3.0.0	3.0.0
		GENEPIO:0100440  GENEPIO:0100697		Provide the depth of sediment with a value and unit.	2m			7.6.4	7.6.4	7.6.4
ample collection and processing ample collection and processing	sediment_depth air_temperature	GENEPIO:0100697	The depth of some sediment.  The temperature of some air.	and unit.  Provide the temperature of the air with a value and unit. Do not provide a symbol for degree e.g. oC	25C			3.0.0	3.0.0	3.0.0
	- :			Provide the temperature of the water with a value and unit. Do not provide a symbol for	4C					
ample collection and processing	water_temperature	GENEPIO:0100698	The temperature of some water.  The state of the atmosphere at a	degree e.g. oC	Rain [ENVO:01001564]			7.6.4	7.6.4	7.6.4
Sample collection and processing	weather_type	GENEPIO:0100442	place and time as regards heat, dryness, sunshine, wind, rain, etc.	Provide the weather conditions at the time of sample collection.	,,			3.0.0	3.0.0	3.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
		3,2						Label	ID	Description/Gu
	Colour Code Legend			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						dance
ample collection and processing	available_data_types	GENEPIO:0100690	that may or may not require permission to access.	access. Contact the data provider for more information.				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 inhabiling 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
			A substance obtained from the natural or man-made environment e.g. soil, water,	If applicable, select the standardized term and ontology ID for the environmental material	[ENVO:00002001]; Broom					
sample collection and processing	environmental_material	GENEPIO:0001223	sewage, door handle, bed handrail, face mask.	from the picklist provided. Multiple values can be provided, separated by a semi-colon.	[ENVO:03501377]			3.0.0	3.0.0	3.0.0
			A substance obtained from an anatomical part of an organism	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	Tissue [UBERON:0000479]; Blood [UBERON:0000178]					
Sample collection and processing	anatomical_material	GENEPIO:0001211	e.g. tissue, blood.  A substance excreted/secreted from an organism e.g. feces,	a semi-colon.  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 notlogy ID for the body product from the picklist provided. Multiple values can be provided, separated by	Feces [UBERON:0001988]; Urine [UBERON:0001088]			3.0.0	3.0.0	3.0.0
ample collection and processing	body_product	GENEPIO:0001216	urine, sweat.	a semi-colon.				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_region	GENEPIO:0100700	A 3D region in space without well-defined compartmental boundaries.	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
Sample collection and processing	food_product_properties	GENEPIO:0100445	Any characteristic of the food product pertaining to its state, processing, a label claim, or implications for consumers.	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 claim (e.g. organic, fat-free)	Food (chopped) [FOODON:00002777]; Ready-to-eat (RTE) [FOODON:03316636]			3.0.0	3.0.0	3.0.0
sample collection and processing	loou_product_properties	GENEFIO:0100443	'	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.  A production pathway incorporating the processes,	applicable, leave blank. Multiple entries can be provided, separated by a comma.	Beef cattle production stream [FOODON:03000452]			3.0.0	3.0.0	3.0.0
temple collection or director.	food anadout anadout	OFNIEDIO 0400000	material entities (e.g. equipment, animals, locations), and conditions that participate in the	Provide the name of the agricultural production		and unting characters		0.0.7	7.6.4	0.07
sample collection and processing	food_product_production_stream	GENEPIO:0100699	generation of a food commodity.  A specification of the way that a	stream from the picklist.  Provide a description of how the same was	Frozen at -20C	production_stream		8.8.7	7.6.4	8.8.7
ample 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	GENEPIO:0100449	sample is stored.	used to store the sample.  This field includes animal feed. If applicable,	PBS + 20% glycerol Drag swab [OBI:0002822]			3.0.0	3.0.0	3.0.0
ample collection and processing	collection_device	GENEPIO:0001234	The instrument or container used to collect the sample e.g. swab.	Inis 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.	Diag Swap [UDI: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

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description/Gu
	Colour Code Legend							Label	טו	dance
Name   1   1   1   1   1   1   1   1   1	food markening	OFNEDIO-0400447	The type of packaging used to	If known, provide information regarding how	Plastic tray or pan			200	200	200
Sample collection and processing  Sample collection and processing	food_packaging  food_quality_date	GENEPIO:0100447  GENEPIO:0100615	contain a food product.  A date recommended for the use of a product while at peak quality, this date is not a reflection of safety unless used on infant formula.	the food product was packaged.  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.	[FOODON:03490126]			6.4.2	6.4.2	6.4.2
· · · · · ·				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,						
Sample collection and processing	food_packaging_date	GENEPIO:0100616	manufacturer or retailer.	leave blank or provide a null value.	2020-05-25	i		6.4.2	6.4.2	6.4.2
lost information		GENEPIO:0001268								
Host information	host (common name)	GENEPIO:0001386	The commonly used name of the host.	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, provide the common name.	Cow [NCBITaxon:9913]; Chicken [NCBITaxon:9913], Human [NCBITaxon:9606]			3.0.0	3.0.0	3.0.0
Host information	host (scientific name)	GENEPIO:0001387	The taxonomic, or scientific name of the host.	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 picklist provided.	Bos taurus [NCBITaxon:9913]; Homo sapiens [NCBITaxon:9103]			3.0.0	3.0.0	3.0.0
Host information	host (ecotype)	GENEPIO:0100450	The biotype resulting from selection in a particular habitat, e.g. the A. thaliana Ecotype Ler.	Provide the name of the ecotype of the host organism.	Sea ecotype			3.0.0	3.0.0	3.0.0
Host information	host (breed)	GENEPIO:0100451	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 breedind.	Provide the name of the breed of the host organism.	Holstein			3.0.0	3.0.0	3.0.0
Host information	host (food production name)	GENEPIO:0100452	The name of the host at a certain 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.	Calf [FOODON:03411349]			3.0.0	3.0.0	3.0.0
Host information	host_age_bin	GENEPIO:0001394	Age of host at the time of sampling, expressed as an age group.	Select the corresponding host age bin from the pick list provided in the template. If not available, provide a null value or leave blank.	First summer [GENEPIO:0100685]			7.6.4	7.6.4	7.6.4
Host information	host_disease	GENEPIO:0001391	The name of the disease experienced by the host.	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. uk/ols/ontologies/doid if the disease is not known, put "missing".	mastitis, gastroenteritis			3.0.0	3.0.0	3.0.0
Strain and isolation information		GENEPIO:0100453								
Strain and isolation information	microbiological_method	GENEPIO:0100454	The laboratory method used to grow, prepare, and/or isolate the microbial isolate.	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 laboratory that created the procedure.	MFHPB-30			3.0.0	3.0.0	3.0.0
Strain and isolation information	strain	GENEPIO:0100455	The strain identifier.	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:0001644						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/Godance
				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 Canada: PHAC Canadian Food Inspection Agency: CFIA Agriculture and Agri-Food Canada: DFO Environment and Climate Change Canada: ECCC Health Canada: HC An example of a properly formatted	GHIF3456[PHAC]; QWICK222[CFIA]					
			An alternative isolate_ID	alternative_isolate_identifier would be e.g. XYZ4567[CFIA]						
Strain and isolation information	alternative_isolate_ID	GENEPIO:0100457	assigned to the isolate by another organization.	Multiple alternative isolate IDs can be provided, separated by semi-colons.				3.0.0	3.0.0	3.0.0
orali and isolation information	alternative_isolate_ib	GENEFIO:0100437	The identifier assigned to a		SUB_ON_1526			3.0.0	3.0.0	3.0.0
Strain and isolation information	progeny_isolate_ID	GENEPIO:0100458	progenitor isolate derived from an isolate that was directly obtained from a sample.	If your sequence data pertains to progeny of an original isolate, provide the progeny_isolate_ID.				3.0.0	3.0.0	3.0.0
			The identifier of the isolate in the	Provide the "sample ID" used to track information linked to the isolate in IRIDA. IRIDA smple IDs should be unquie to avoid ID clash. 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	GRDI_LL_12345					
Strain and isolation information	IRIDA_isolate_ID	GENEPIO:0100459	IRIDA platform.	management practices.	666			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".				3.0.0	3.0.0	3.0.0
			The name of the agency, organization or institution with which the individual who performed the isolation	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]					
Strain and isolation information	isolated_by isolated_by_laboratory_name	GENEPIO:0100461  GENEPIO:0100462	procedure is affiliated.  The specific laboratory affiliation of the individual who performed the isolation procedure.	provide a null value.  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
Strain and isolation information	isolated_by_contact_name	GENEPIO:0100463	The name or title of the contact responsible for follow-up regarding the isolate.	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, leave blank or provide a null value.	Enterics Lab Manager			3.0.0	3.0.0	3.0.0
Strain and isolation information	isolated_by_contact_email	GENEPIO:0100464		Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more prefereable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.	enterics@lab.ca			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
Name in the desired in factors as in factors	la data manahandi data	OFNIEDIO 0400400	The date on which the isolate	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or	2020-11-15			200	200	200
Strain and isolation information	isolate_received_date	GENEPIO:0100466  GENEPIO:0001191	was received by the laboratory.  Taxonomic name of the organism.	"YYYY".  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.	Salmonella enterica subsp. 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
Strain and isolation information	serovar	GENEPIO:0100467	The serovar of the organism.	Only include this information if it has been determined by traditional serological methods or a validated in silico prediction tool e.g. SISTR	Heidelberg			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 dance
	Colodi Codo Esgona			If the serovar was determined via traditional	SISTR 1.0.1					dance
				serotyping methods, put "Traditional serotyping". If the serovar was determined via						
Strain and isolation information	serotyping_method	GENEPIO:0100468	The method used to determine the seroyar.	in silico methods, provide the name and version number of the software.				3.0.0	3.0.0	3.0.0
Strain and isolation information	phagetype	GENEPIO:0100469		Provide if known. If unknown, put "missing".	47	,		3.0.0	3.0.0	3.0.0
Sequence information		GENEPIO:0001441								
				Every "library ID" from a single submitter must be unique. It can have any format, but we	LS_2010_NP_123446					
			The user-specified identifier for	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
			The name of the agency,	Provide the name of the agency, organization or institution that performed the sequencing in						
			organization or institution	full (avoid abbreviations). If the information is	[GENEPIO:0100551]					
Sequence information	sequenced by	GENEPIO:0100416	responsible for sequencing the isolate's genome.	unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
			Ů	Provide the name of the specific laboratory	Topp Lab					
			The specific laboratory affiliation	that that performed the sequencing in full (avoid abbreviations). If the information is						
Sequence information	sequenced by laboratory name	GENEPIO:0100470		unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
sequence information	sequenced_by_laboratory_name	GENEPIO.0100470	the isolate's genome.	Provide the name of an individual or their job	Enterics Lab Manager			3.0.0	3.0.0	3.0.0
				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 selecting a value from the following pick list:	Research [GENEPIO:0100003]					
				Diagnostic testing, Surveillance, Monitoring,	(					
				Clinical trial, Field experiment, Environmental testing. If the information is unknown or cannot						
Sequence information	purpose_of_sequencing	GENEPIO:0001445	The reason that the sample was sequenced.	be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
	harbass Taranama		The name of the	Provide the name of the project and/or the	AMR-GRDI (PA-1356)					
			project/initiative/program for which sequencing was	project ID here. If the information is unknown or cannot be provided, leave blank or provide						
Sequence information	sequencing_project_name	GENEPIO:0100472	performed.	a null value.				3.0.0	3.0.0	3.0.0
				Provide the name of the company that created the sequencing instrument by selecting a	Illumina [GENEPIO:0001923]					
			The platform technology used to	value from the template pick list. If the						
Sequence information	sequencing_platform	GENEPIO:0100473	The platform technology used to perform the sequencing.	information is unknown or cannot be provided, 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	Illumina HiSeq 2500					
			The model of the sequencing	the information is unknown or cannot be	[GENEPIO.0100117]					
Sequence information	sequencing_instrument	GENEPIO:0001452	instrument used.  The name of the DNA library	provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
			preparation kit used to generate	Provide the name of the library preparation kit						
Sequence information	library_preparation_kit	GENEPIO:0001450	the library being sequenced.	used.  Provide the name and version of the	Nextera XT https://www.protocols.io/view/n			3.0.0	3.0.0	3.0.0
				procedure or protocol used for sequencing.	cov-2019-sequencing-protocol	<u> </u>				
Sequence information	sequencing_protocol	GENEPIO:0001454	The protocol or method used for sequencing.	You can also provide a link to a protocol online.	bbmuik6w?version_warning=n o			3.0.0	3.0.0	3.0.0
0		OFNEDIO 0004472	The user-specified filename of	Devide the of FACTO files	ABC123_S1_L001_R1_001.fa			200	200	200
Sequence information	r1_fastq_filename	GENEPIO:0001476	the r1 FASTQ file. The user-specified filename of	Provide the r1 FASTQ filename.	stq.gz ABC123_S1_L001_R2_001.fa			3.0.0	3.0.0	3.0.0
Sequence information	r2_fastq_filename	GENEPIO:0001477	the r2 FASTQ file.	Provide the r2 FASTQ filename.	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
	_		The user-defined filename of the		pathogenassembly123.fasta					
Sequence information  Public repository information	assembly_filename	GENEPIO:0001461 GENEPIO:0100477	FASTA file.	Provide the FASTA filename.				3.0.0	3.0.0	3.0.0
- ablic repository information		GENEFIO.01004/1		The name of the agency should be written out	Environment and Climate					
				in full, (with minor exceptions) and be consistent across multiple submissions. If	Change Canada (EC)					
				consistent across multiple submissions. If	[GENEPIO.0100000]					
			The name of the agency that submitted the sequence to a	submitting specimens rather than sequencing data, please put the "National Microbiology						

Parent Class	Field	Ontology Identifier	Definition	Guidance	Deprecated Label Examples	Deprecated ID	Version Tracking		
		9,					Label	ID	Description/Gu
	Colour Code Legend			Provide the name of an individual or their job					dance
				title. As personnel turnover may render the					
			The name or title of the contact responsible for follow-up	contact's name obsolete, it is prefereable to provide a job title for ensuring accuracy of					
			regarding the submission of the	information and institutional memory. If the					
Public repository information	sequence_submitted_by_contact_name	GENEPIO:0100474	sequence to a repository or database.	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
abile repository information	sequence_submitted_by_contact_name	OEINEI 10.0100474	The email address of the agency		RespLab@lab.ca		0.0.0	5.0.0	5.0.0
			responsible for submission of the	individual or lab e.g. johnnyblogs@lab.ca, or	,				
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 publication. Other types of identifiers (e.g.					
Public repository information	publication_ID	GENEPIO:0100475	The identifier for a publication.	DOI) are also acceptable.			3.0.0	3.0.0	3.0.0
				If the sample is from a specific human or	Pathogen.env				
			The attribute package used to	animal, put "Pathogen.cl". If the sample is from an environmental sample including food, feed,					
			structure metadata in an INSDC	production facility, farm, water source, manure					
Public repository information	attribute_package	GENEPIO:0100476	BioSample.	etc, put "Pathogen.env".  Required if submission is linked to a	PRJNA12345		3.0.0	3.0.0	3.0.0
				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 INSDC accession number of	PRJE or PRJD, e.g., PRJNA12345 and is created once at the beginning of a new					
			the BioProject(s) to which the	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 BioSample submission. NCBI BioSamples will	SAMN14180202				
			The identifier assigned to a	have the prefix SAMN, whileEMBL- EBI					
Public repository information	biosample_accession	GENEPIO:0001139	BioSample in INSDC archives.	BioSamples will have the prefix SAMEA.	CDD44477700		3.0.0	3.0.0	3.0.0
			The Sequence Read Archive (SRA), European Nucleotide		SRR11177792				
			Archive (ENA) or DDBJ						
			Sequence Read Archive (DRA) identifier linking raw read data,	Store the accession assigned to the submitted	1				
			methodological metadata and	"run". NCBI-SRA accessions start with SRR,					
Public repository information	SRA accession	GENEPIO:0001142	quality control metrics submitted to the INSDC.	EBI-ENA runs start with ERR and DRA accessions start with DRR.			3.0.0	3.0.0	3.0.0
			The GenBank/ENA/DDBJ		MN908947.3				
Public repository information	GenBank_accession	GENEPIO:0001145	identifier assigned to the sequence in the INSDC archives.	Store the accession returned from a GenBank/ENA/DDBJ submission.			3.0.0	3.0.0	3.0.0
Risk assessment information		GENEPIO:0100478							
				Risk assessment requires detailed information					
				regarding the quantities of a pathogen in a specified location, commodity, or environment.	collected, Number of positive				
				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",					
			Metrics regarding the prevalence	"Number of positive samples", "Average count of hazard organism", "Average count of	!				
			of the pathogen of interest	indicator organism". You do not need to					
Risk assessment information	prevalence_metrics	GENEPIO:0100480	obtained from a surveillance project.	provide the actual values, just indicate that the information is available.			3.0.0	3.0.0	3.0.0
			The details pertaining to the	If there are details pertaining to samples or	Hazard organism counts (i.e.				
Risk assessment information	provalence metrics details	GENEPIO:0100481	prevalence metrics from a	organism counts in the sample plan that might			3.0.0	3.0.0	3.0.0
view geographic il il ionniation	prevalence_metrics_details	GENEPIO.0100461	surveillance project.	be informative, provide details using free text.  Provide the stage of food production as free	between serovars. Abattoir		3.0.0	3.0.0	3.0.0
Risk assessment information	stage_of_production	GENEPIO:0100482	The stage of food production.	text.			3.0.0	3.0.0	3.0.0
				In some surveys, a particular intervention in	Vaccination [NCIT:C15346]				
			The category of the experimental	the food supply chain in studied. If there was an intervention specified in the sample plan,					
Risk assessment information	experimental_intervention	GENEPIO:0100483	intervention applied in the food production system.	select the intervention category from the pick list provided.			3.0.0	3.0.0	3.0.0
rvar assessment inionnation	SAPERIMENTAL_INTERVENTION	GLINEFIO.0100403	The details of the experimental	· ·	2% cranberry solution mixed in		3.0.0	3.0.0	3.0.0
Risk assessment information		GENEPIO:0100484	intervention applied in the food production system.	the survey, provide details in this field as free	feed		3.0.0	3.0.0	3.0.0
Risk assessment information  Antimicrobial resistance	experiment_intervention_details	GENEPIO:0100484 GENEPIO:0100479	production system.	text.			3.0.0	3.0.0	3.0.0
The second resistance		OENE 10.0100479		The names of the drug have already been	Amoxicillin-clavulanic				
			The name of the agent that kills	matched with measurement, breakpoint, and	[ARO:3003997]				
			or slows the growth of microorganisms, including	phenotype fields in the template. No need to add these unless the drug of interest is not					
Antimicrobial resistance	antimicrobial agent name	OFNEDIO 0400FC1	bacteria, viruses, fungi and	present. Use the Term Request System to			3.0.0	3.0.0	3.0.0
	antimicronial agent name	GENEPIO:0100521	protozoans.	request the addition of other agents.			13 0 0		

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/G
	Colour Gode Edgeria			Provide the name of the agency, organization	Canadian Food Inspection					dance
			The name of the organization	or institution that performed the AMR testing, in full (avoid abbreviations). If the information	Agency (CFIA) [GENEPIO:0100552]					
			that performed the antimicrobial	is unknown or cannot be provided, leave blank						
ntimicrobial resistance	AMR_testing_by	GENEPIO:0100511	resistance testing.	or provide a null value.  Provide the name of the specific laboratory	Topp Lab			3.0.0	3.0.0	3.0.0
				that performed the AMR testing (avoid						
			The name of the lab within the organization that performed the	abbreviations). If the information is unknown o cannot be provided, leave blank or provide a	r					
Antimicrobial resistance	AMR_testing_by_laboratory_name	GENEPIO:0100512	antimicrobial resistance testing.	null value.				3.0.0	3.0.0	3.0.0
				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 preferable						
			The name of the individual or the individual's role in the	to provide a job title for ensuring accuracy of information and institutional memory. If the						
			organization that performed the	information is unknown or cannot be provided,						
Antimicrobial resistance	AMR_testing_by_contact_name	GENEPIO:0100513	antimicrobial resistance testing.	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	johnnyblogs@lab.ca					
				individual's email obsolete, it is more						
			The email of the individual or the	preferable to provide an address for a position or lab, to ensure accuracy of information and						
			individual's role in the organization that performed the	institutional memory. If the information is unknown or cannot be provided, leave blank o	,					
Antimicrobial resistance	AMR_testing_by_contact_email	GENEPIO:0100514	antimicrobial resistance testing.	provide a null value.				3.0.0	3.0.0	3.0.0
			The date the antimicrobial	Provide the date according to the ISO 8601	2022-04-0	3				
Antimicrobial resistance	AMR_testing_date	GENEPIO:0100515	resistance testing was performed.	standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".				3.0.0	3.0.0	3.0.0
			The antimicrobial resistance		Susceptible antimicrobial					
			phenotype, as determined by the antibiotic susceptibility		phenotype [ARO:3004302]					
			measurement and testing					7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_resistance_phenotype		standard for this antibiotic  The measured value of	Select a phenotype from the pick list provided.  This field should only contain a number (either		1		7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_measurement		antimicrobial resistance.	an integer or a number with decimals).		•		7.7.5		3.0.0
			The units of the antimicrobial	Select the units from the pick list provided. Use the Term Request System to request the	ug/mL [UO:0000274]					
Antimicrobial resistance	antimicrobial_measurement_units		resistance measurement.	addition of other units if necessary.				7.7.5		3.0.0
				Select the comparator sign from the pick list	greater than (>)					
			The qualifier associated with the antibiotic susceptibility	provided. Use the Term Request System to request the addition of other signs if	[GENEPIO:0001006]					
Antimicrobial resistance	antimicrobial_measurement_sign		measurement	necessary.				7.7.5		3.0.0
				Select a typing method from the pick list provided. Use the Term Request System to	Broth dilution [ARO:3004397]					
			The general method used for	request the addition of other methods if						
Antimicrobial resistance	antimicrobial_laboratory_typing_method		antibiotic susceptibility testing.	necessary.  Select a typing platform from the pick list	Sensitire [ARO:3004402]			7.7.5		3.0.0
				provided. Use the Term Request System to	Sensitire [AINO.3004402]					
Antimicrobial resistance	antimicrobial_laboratory_typing_platform		The brand/platform used for antibiotic susceptibility testing	request the addition of other platforms if necessary.				7.7.5		3.0.0
and more detailed	anamorobia_aboratory_typing_platform		The specific name and version of		CMV3AGNF			7.7.0		0.0.0
			the plate, panel, or other platform used for antibiotic susceptibility	Include any additional information about the antimicrobial susceptibility test such as the						
Antimicrobial resistance	antimicrobial_laboratory_typing_platform_version		testing.	drug panel details.				7.7.5		3.0.0
Antimicrobial resistance			The name of the vendor of the	Provide the full name of the company (avoid abbreviations).	Sensititre [ARO:3004402]			7.7.5		3.0.0
Antimicropiai resistance	antimicrobial_vendor_name		testing platform used.  The testing standard used for	abbreviations).	Clinical Laboratory and			7.7.5		3.0.0
			determination of resistance	Select a testing standard from the pick list	Standards Institute (CLSI)					
Antimicrobial resistance	antimicrobial_testing_standard		phenotype The version number associated	provided.	[ARO:3004366]			7.7.5		3.0.0
			with the testing standard used for							
Antimicrobial resistance	antimicrobial_testing_standard_version		determination of resistance phenotype	If applicable, include a version number for the testing standard used.	M100			7.7.5		3.0.0
			The additional details associated		27th ed. Wayne, PA: Clinical					
			with the testing standard used for determination of resistance	This information may include the year or location where the testing standard was	and Laboratory Standards Institute; 2017.					
Antimicrobial resistance	antimicrobial_testing_standard_details		phenotype	published. If not applicable, leave blank.	moutate, 2017.			7.7.5		3.0.0
			The maximum measurement, in			3				
			the units specified in the "AMR_measurement_units" field,	This field should only contain a number (either						
Antimicrobial resistance	antimicrobial_susceptible_breakpoint		for a sample to be considered "sensitive" to this antibiotic	an integer or a number with decimals), since the "<=" qualifier is implied.				7.7.5		3.0.0
anamorobiai redistante	aobiai_susceptible_breakpoint		The intermediate	a.o - quanto to impilou.	1	3				5.0.0
			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							
Antimicrobial resistance	antimicrobial_intermediate_breakpoint		antibiotic					7.7.5		3.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gui dance
			for a sample to be considered	This field should only contain a number (either an integer or a number with decimals), since	3:	2				
Antimicrobial resistance	antimicrobial resistant breakpoint		"resistant" to this antibiotic	the ">=" qualifier is implied.				7.7.5		3.0.0