Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description (C)
	Colour Code Legend							Label	ש	Description/Gui dance
	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.				
	field name in purple = recommended									
	field name in white = optional									
Sample collection and processing		GENEPIO:0001268								
Sample 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 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 Agrif-Food Canada: AAFC 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 sunknown or cannot be provided, leave blank o provide a null value.	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	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_project_name	GENEPIO:0100429	which the sample was collected.					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 o 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	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.				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	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
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

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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 dance
Sample collection and processing	purpose of sampling	GENEPIO:0001198	The reason that the sample was collected.	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
Sample collection and processing	presampling_activity	GENEPIO:0100433	The activities or variables introduced upstream of sample collection that may affect the sample collected	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 or provide a null value.				3.0.0	3.0.0	3.0.0
bampio concount and processing	procumpung_activity	OLINE: 10:0100100	The details of the activities or		Chicken feed containing X			0.0.0	0.0.0	0.0.0
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.	Samples pooled [OBI:0600016]			3.0.0	3.0.0	3.0.0
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]			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
Sample collection and processing	geo_loc_name (site)	GENEPIO:0100436	The name of a specific geographical location e.g. Credit River (rather than river).	Provide the name of the specific geographical site using a specific noun (a word that names a certain place, thing).	Credit River			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 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 o provide a null value.				3.0.0	3.0.0	3.0.0
				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 unknown or cannot be provided, leave blank or provide						
Sample collection and processing	host_origin geo_loc_name (country)	GENEPIO:0100438	The country of origin of the host. 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	•			3.0.0	3.0.0	3.0.0
Sample collection and processing	geo_loc latitude	GENEPIO:0100309	Collection. The longitude coordinates of the geographical location of sample	provide a null value. 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 cityregion 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 o				3.0.0	3.0.0	3.0.0
Sample collection and processing	geo_loc longitude	GENEPIO:0100310	collection.	provide a null value. Provide the date according to the ISO 8601	2020-10-30			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". Provide the precision of granularity to the	2020-10-30 day [UO:0000033]			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.	uay [00.0000033]			7.6.4	7.6.4	7.6.4

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking	10	D
	Colour Code Legend							Label	ID	Description/Gu dance
		05115010 000 1170	The date on which the sample	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or	2020-11-15					
Sample collection and processing	sample_received_date	GENEPIO:0001179	was received. The original sample description	"YYYY". 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			3.0.0	3.0.0	3.0.0
Sample collection and processing	original_sample_description	GENEPIO:0100439	An environmental location may describe a site in the natural or	If applicable, select the standardized term and ontology ID for the environmental site from the	Poultry hatchery [ENVO:01001874]			3.0.0	3.0.0	3.0.0
Sample collection and processing	environmental_site	GENEPIO:0001232	built environment e.g. hospital, wet market, bat cave.	picklist provided. Multiple values can be provided, separated by a semi-colon. Provide the depth of water with a value and	5m			3.0.0	3.0.0	3.0.0
Sample collection and processing	water_depth	GENEPIO:0100440	The depth of some water.	unit.	2m			3.0.0	3.0.0	3.0.0
Sample collection and processing	sediment_depth	GENEPIO:0100697	The depth of some sediment.	Provide the depth of sediment with a value and unit.				7.6.4	7.6.4	7.6.4
Sample collection and processing	air_temperature	GENEPIO:0100441	The temperature of some air.	Provide the temperature of the air with a value and unit. Do not provide a symbol for degree e.g. oC				3.0.0	3.0.0	3.0.0
Sample collection and processing	water_temperature	GENEPIO:0100698	The temperature of some water.	Provide the temperature of the water with a value and unit. Do not provide a symbol for degree e.g. oC	4C			7.6.4	7.6.4	7.6.4
		GENEPIO:0100442	The state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain, etc.		Rain [ENVO:01001564]			3.0.0	3.0.0	3.0.0
Sample collection and processing Sample collection and processing	weather_type available_data_types	GENEPIO:0100690		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 that develope the permission to 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 inhabiting an area.	This field should be used when a sample is taken from an environmental location inhabite 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.il 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.	Soil [ENVO:00001998]; Wate [CHEBI:15377]; Wastewater [ENVO:00002001]; Broom [ENVO:03501377]	r		3.0.0	3.0.0	3.0.0
Sample collection and processing	anatomical material	GENEPIO:0001211	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:0001210	An anatomical part of an organism e.g. cropharynx.	A 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

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label [Deprecated ID	Version Tracking	-	S
	Colour Code Legend							Label	ID	Description/G dance
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
			The animal from which the food	Provide the common name of the animal. If not applicable, leave blank. Multiple entries can be						
Sample collection and processing	animal_source_of_food	GENEPIO:0100446	product was derived. A production pathway incorporating the processes, material entities (e.g. equipment, animals, locations), and conditions that participate in the	provided, separated by a comma. Provide the name of the agricultural production	Beef cattle production stream [FOODON:03000452]			3.0.0	3.0.0	3.0.0
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
Sample collection and processing	sample_storage_method	GENEPIO:0100448	specimen is or was stored. The material or matrix in which a	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.	PBS + 20% glycerol			3.0.0	3.0.0	3.0.0
Sample collection and processing	collection_device	GENEPIO:0001234	The instrument or container used to collect the sample e.g. swab.	This field includes animal feed. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided, separated by a semi-colon.	Drag swab [OBI:0002822]			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	food_packaging	GENEPIO:0100447	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]			3.0.0	3.0.0	3.0.0
		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	2020-05-25			6.4.2	6.4.2	6.4.2
Sample collection and processing	food_quality_date		A food product's packaging date as marked by a food	known, leave blank or provide a null value. 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 Host information	food_packaging_date	GENEPIO:0100616 GENEPIO:0001268	manufacturer or retailer.	leave blank or provide a null value.	2020-05-25			6.4.2	6.4.2	6.4.2
Host information	host (common name)	GENEPIO:0001288	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 a 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:0001367	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	e.g. in e.A. trialatina covype Let. 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 breeding.	Provide the name of the breed of the host organism.	Holstein			3.0.0	3.0.0	3.0.0
			The name of the host at a certain stage of food production, which may depend on its age or stage	Select the host's food production name from	Calf [FOODON:03411349]					
Host information	host (food production name)	GENEPIO:0100452	of sexual maturity. Age of host at the time of sampling, expressed as an age	the pick list. Select the corresponding host age bin from the pick list provided in the template. If not	First summer [GENEPIO:0100685]			3.0.0	3.0.0	3.0.0
Host information	host_age_bin	GENEPIO:0001394	group.	available, provide a null value or leave blank. 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:	mastitis, gastroenteritis			7.6.4	7.6.4	7.6.4
Host information	host_disease	GENEPIO:0001391	The name of the disease experienced by the host.	https://www.ebi.ac.uk/ols/ontologies/doid If the disease is not known, put "missing".				3.0.0	3.0.0	3.0.0
Strain and isolation information		GENEPIO:0100453	•	·						

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gu
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	Identifier of the specific isolate.	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. If 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 isolate ID field.				3.0.0	3.0.0	3.0.0
Strain and isolation information	alternative_isolate_ID	GENEPIO:0100457	An alternative isolate_ID assigned to the isolate by another organization.	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: AAFC Fisheries and Oceans Canada: DFO Environment and Climate Change Canada: ECCC Health Canada: HC An example of a properly formatted alternative isolate [identifier would be e.g. XY24567[CFIA] Multiple alternative isolate IDs can be provided, spearated by semi-colons.	GHIF3456[PHAC]; QWICK222[CFIA]			3.0.0	3.0.0	3.0.0
Strain and isolation information	progeny_isolate_ID	GENEPIO:0100458	The identifier assigned to a	If your sequence data pertains to progeny of	SUB_ON_1526			3.0.0	3.0.0	3.0.0
Strain and isolation information	IRIDA_isolate_ID	GENEPIO:0100459		Provide the "sample ID" used to track information linked to the isolate in IRIDA. IRIDA sample IDs should be unqiue 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 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
Strain and isolation information	isolated_by	GENEPIO:0100461	The name of the agency, organization or institution with which the individual who performed the isolation procedure is affiliated.	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 provide a null value.	Canada (PHAC) [GENEPIO:0100551]			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
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	The email address of the contact responsible for follow-up regarding the isolate.	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	isolated_by_contact_email	GENEPIO:0100464 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

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label [eprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/G dance
	-			Provide the date according to the ISO 8601	2020-11-15					
Strain and isolation information	isolate_received_date	GENEPIO:0100466	The date on which the isolate was received by the laboratory.	standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".				3.0.0	3.0.0	3.0.0
ou ain and isolation miormation	isolate_receiveu_date	GENEFIO.0100400	was received by the laboratory.	Put the genus and species (and subspecies if	Salmonella enterica subsp.			3.0.0	3.0.0	3.0.0
				applicable) of the bacteria, if known. The	enterica [NCBITaxon:59201]					
			Taxonomic name of the	standardized term can be sourced from this look-up service:						
Strain and isolation information	organism	GENEPIO:0001191	organism.	https://www.ebi.ac.uk/ols/ontologies/ncbitaxon.				3.0.0	3.0.0	3.0.0
				Provide the type of method used to determine	PCR assay [OBI:0002740]					
			The type of planned process by	the taxonomic identity of the organism by selecting a value from the pick list. If the						
			which an organismal entity is	information is unknown or cannot be provided,						
Strain and isolation information	taxonomic_identification_process	GENEPIO:0100583	associated with a taxon or taxa. The details of the process used	leave blank or provide a null value.	Biolog instrument			4.2.1	4.2.1	4.2.1
			to determine the taxonomic	Briefly describe the taxonomic identififcation	biolog instrument					
Strain and isolation information	taxonomic_identification_process_details	GENEPIO:0100584	identification of an organism.	method details using free text.				4.2.1	4.2.1	4.2.1
				Only include this information if it has been determined by traditional serological methods	Heidelberg					
				or a validated in silico prediction tool e.g.						
train and isolation information	serovar	GENEPIO:0100467	The serovar of the organism.	SISTR.				3.0.0	3.0.0	3.0.0
				If the serovar was determined via traditional serotyping methods, put "Traditional	SISTR 1.0.1					
				serotyping". If the serovar was determined via						
Strain and isolation information	serotyping_method	GENEPIO:0100468	The method used to determine the seroyar.	in sillico 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	The phagetype of the organism.	Provide if known. If unknown, put "missing".	47			3.0.0	3.0.0	3.0.0
Sequence information	P. Scrippe	GENEPIO:0001441								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						
			the library prepared for	consistent within your lab, and as informative						
Sequence information	library_ID	GENEPIO:0001448	sequencing.	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	Public Health Agency of					
			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
Sequence information	sequenceu_by	GENEFIO.0100410	isolate's genome.	Provide the name of the specific laboratory	Topp Lab			3.0.0	3.0.0	3.0.0
				that that performed the sequencing in full	торр сав					
			The specific laboratory affiliation	(avoid abbreviations). If the information is unknown or cannot be provided, leave blank or						
Sequence information	sequenced_by_laboratory_name	GENEPIO:0100470	the isolate's genome.	provide a 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 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	enterics@lab.ca					
				contact. As personnel turnover may render an individual's email obsolete, it is more						
				prefereable to provide an address for a						
			The email address of the contact	position or lab, to ensure accuracy of information and institutional memory. If the						
			responsible for follow-up	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						
		OFNEDIO 000444-		be provided, leave blank or provide a null						
Sequence information	purpose_of_sequencing	GENEPIO:0001445	sequenced. The name of the	value.	AMD CDDI (DA 1256)			3.0.0	3.0.0	3.0.0
			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	assumating 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	sequencing_project_name	GENEPIO:0100472	репоглеа.	a null value. Provide the name of the company that created	Illumina [GENEPIO:0001022]			3.0.0	3.0.0	3.0.0
				the sequencing instrument by selecting a						
			The platform technology used to	value from the template pick list. If the 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	Illumina HiSeq 2500					
			The model of the sequencing	selecting a value from the template pick list. If the information is unknown or cannot be	[GENEPIO:0100117]					
Sequence information	sequencing_instrument	GENEPIO:0001452	instrument used.	provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
			The name of the DNA library							
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
oquorioo irriorriadUH		JENET 10.000 1430	and indiany being sequenced.	acca.	HOMOIG AT			0.0.0	0.0.0	0.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gu dance
	3			Provide the name and version of the	https://www.protocols.io/view/n					
			The protocol or method used for	procedure or protocol used for sequencing.	cov-2019-sequencing-protocol-					
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			3.0.0	3.0.0	3.0.0
			The user-specified filename of		ABC123_S1_L001_R1_001.fa					
Sequence information	r1_fastq_filename	GENEPIO:0001476	the r1 FASTQ file.	Provide the r1 FASTQ filename.	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
ocquerice information	12_lustq_menume	GENET 10:0001477	The user-specified filename of	Trovide the 12 FAOTQ mentante.	batch1a_sequences.fast5			5.0.0	5.0.0	5.0.0
Sequence information	fast5_filename	GENEPIO:0001480	the FAST5 file.	Provide the FAST5 filename.	- '			3.0.0	3.0.0	3.0.0
Sequence information		GENEPIO:0001461	The user-defined filename of the FASTA file.		pathogenassembly123.fasta			3.0.0	3.0.0	3.0.0
Public repository information	assembly_filename	GENEPIO:0001461	FASTA TILE.	Provide the FASTA filename.				3.0.0	3.0.0	3.0.0
ablic repository information		GENET 10:0100411		The name of the agency should be written out	Environment and Climate					
				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						
Public 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 title. As personnel turnover may render the						
			The name or title of the contact	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					
Public repository information	sequence_submitted_by_contact_email	GENEPIO:0001165	responsible for submission of the sequence.	individual or lab e.g. johnnyblogs@lab.ca, or RespLab@lab.ca				3.0.0	3.0.0	3.0.0
abile repository information	coquemos_cusminou_sy_comusc_cmum	02112110:0001100	ooquonoo.	If the isolate is associated with a published	PMID: 33205991			0.0.0	0.0.0	0.0.0
				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							
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 BioProject. BioProjects are an organizing tool	PRJNA12345					
				that links together raw sequence data,						
				assemblies, and their associated metadata. A valid BioProject accession has prefix PRJN.						
				PRJE or PRJD, e.g., PRJNA12345 and is						
			The INSDC accession number of	f created once at the beginning of a new						
Public repository information	bioproject_accession	GENEPIO:0001136	the BioProject(s) to which the BioSample belongs.	sequencing project. Your laboratory can have one or many BioProjects.				3.0.0	3.0.0	3.0.0
rubiic repository intormation	bioproject_accession	GENEFIO.0001130	Biodample belongs.	Store the accession returned from the	SAMN14180202			3.0.0	3.0.0	3.0.0
				BioSample submission. NCBI BioSamples will						
Public repository information	biosample_accession	GENEPIO:0001139	The identifier assigned to a BioSample in INSDC archives.	have the prefix SAMN, whileEMBL- EBI BioSamples will have the prefix SAMEA.				3.0.0	3.0.0	3.0.0
abile repository information	biosampie_accession	OEI4E110.0001103	The Sequence Read Archive	Blodampies will have the prefix of wiley.	SRR11177792			5.0.0	5.0.0	5.0.0
			(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	"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	Store the accession returned from a . GenBank/ENA/DDBJ submission.				3.0.0	3.0.0	3.0.0
Risk assessment information	CONDUIN_ECCESSION	GENEPIO:0100478	obquerioc in the INODO archives	Son Samuel Ary DDD Submission.				0.0.0	0.0.0	0.0.0
non-assessment information		OLNEI 10:0100476		Risk assessment requires detailed information	Number of total samples					
				regarding the quantities of a pathogen in a	collected, Number of positive					
				specified location, commodity, or environment. As such, it is useful for risk assessors to know	samples					
				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
ooooo anomation	p. 1-400.00001.00	SE.1E. 13.0100400	FJOOL					0.0.0	0.0.0	0.0.0

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Doccrintian (C
	Colour Code Legend							Laber	טו	Description/Go dance
			The details pertaining to the	If there are details pertaining to samples or	Hazard organism counts (i.e.					
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	prevalence metrics from a surveillance project.	organism counts in the sample plan that might be informative, provide details using free text.	Salmonella) do not distinguish between serovars.			3.0.0	3.0.0	3.0.0
				Provide the stage of food production as free	Abattoir					
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 the food supply chain in studied. If there was	Vaccination [NCIT:C15346]					
			The category of the experimental	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				3.0.0	3.0.0	3.0.0
			The details of the experimental	If an experimental intervention was applied in	2% cranberry solution mixed in					
Risk assessment information	experiment intervention details	GENEPIO:0100484	intervention applied in the food production system.	the survey, provide details in this field as free text.	feed			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	experiment_intervention_details	GENEPIO:0100479	production system.	iexi.				3.0.0	3.0.0	3.0.0
Antimicrobial resistance		GENET 10.0100473		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						
		05115010 0100501	bacteria, viruses, fungi and	present. Use the Term Request System to						
Antimicrobial resistance	antimicrobial_agent_name	GENEPIO:0100521	protozoans.	request the addition of other agents. Provide the name of the agency, organization	Canadian Food Inspection			3.0.0	3.0.0	3.0.0
				or institution that performed the AMR testing,	Agency (CFIA)					
			The name of the organization that performed the antimicrobial	in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank	[ĞENÉPÌO:0100552]					
Antimicrobial resistance	AMR_testing_by	GENEPIO:0100511	resistance testing.	or provide a null value.	'			3.0.0	3.0.0	3.0.0
				Provide the name of the specific laboratory	Topp Lab					
			The name of the lab within the	that performed the AMR testing (avoid abbreviations). If the information is unknown o	,					
			organization that performed the	cannot be provided, leave blank or provide a						
Antimicrobial resistance	AMR_testing_by_laboratory_name	GENEPIO:0100512	antimicrobial resistance testing.	null value.	Enterior Lab Manager			3.0.0	3.0.0	3.0.0
				Provide the name of an individual or their job title. As personnel turnover may render the	Enterics Lab Manager					
				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. Provide the email associated with the listed	iahunuhlaga@lah aa			3.0.0	3.0.0	3.0.0
				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						
Antimicrobial resistance	AMR_testing_by_contact_email	GENEPIO:0100514	antimicrobial resistance testing.	unknown or cannot be provided, leave blank o 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	2022-04-03	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
Antimicrobial resistance	Amit_testing_uate	GENETIO:0100010	The antimicrobial resistance		Susceptible antimicrobial			0.0.0	0.0.0	0.0.0
			phenotype, as determined by the		phenotype [ARO:3004302]					
			antibiotic susceptibility measurement and testing							
Antimicrobial resistance	antimicrobial_resistance_phenotype		standard for this antibiotic	Select a phenotype from the pick list provided.				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).				7.7.5		3.0.0
,	aiioropiai_incasurdiffett		andimoropial resistance.	Select the units from the pick list provided.	ug/mL [UO:0000274]			1.1.0		0.0.0
			The units of the antimicrobial	Use the Term Request System to request the	5					
Antimicrobial resistance	antimicrobial_measurement_units		resistance measurement.	addition of other units if necessary. Select the comparator sign from the pick list	greater than (>)			7.7.5		3.0.0
			The qualifier associated with the	provided. Use the Term Request System to	[GENEPIO:0001006]					
Antimiorable I resistance	entimierablet massurament eign		antibiotic susceptibility	request the addition of other signs if				7.7.5		3.0.0
Antimicrobial resistance	antimicrobial_measurement_sign		measurement	necessary. Select a typing method from the pick list	Broth dilution [ARO:3004397]			1.1.5		3.0.0
				provided. Use the Term Request System to						
Antimicrobial resistance	antimicrobial_laboratory_typing_method		The general method used for antibiotic susceptibility testing.	request the addition of other methods if necessary.				7.7.5		3.0.0
	spin_doording			Select a typing platform from the pick list	Sensitire [ARO:3004402]					3.0.0
			The beautifulation of	provided. Use the Term Request System to	,					
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
	_ '/_'/		The specific name and version of		CMV3AGNF					
				Include any additional information about the						
Antimicrobial resistance	antimicrobial_laboratory_typing_platform_version		used for antibiotic susceptibility testing.	antimicrobial susceptibility test such as the drug panel details.				7.7.5		3.0.0
			The name of the vendor of the	Provide the full name of the company (avoid	Sensititre [ARO:3004402]					
Antimicrobial resistance	antimicrobial_vendor_name		testing platform used.	abbreviations).	ar			7.7.5		3.0.0
			The testing standard used for	L	Clinical Laboratory and					
			determination of resistance	Select a testing standard from the pick list	Standards Institute (CLSI)					

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gu dance
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 with the testing standard used for determination of resistance phenotype	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.	г	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		1	6		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.	3	2		7.7.5		3.0.0

1/23/2024