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

5/30/2024

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

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking		
	Colour Code Legend							Label	ID	Description/Gui
Sample collection and processing	geo_loc longitude	GENEPIO:0100310	The longitude coordinates of the geographical location of sample collection.	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				3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collection_date	GENEPIO:0001174	The date on which the sample was collected.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2020-10-30			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_collection_date_precision	GENEPIO:0001177	The precision to which the "sample collection date" was provided.	Provide the precision of granularity to the "day", "month", or "year" for the date provided in the "sample collection date" field. The "sample collection date" will be truncated to the precision specified upon export, "day" for "YYYY-MM-DD", "month" for "YYYY-MM", or "year" for "YYYY".	day [UO:0000033]			7.6.4	7.6.4	7.6.4
Sample collection and processing	sample_received_date	GENEPIO:0001179	The date on which the sample was received.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2020-11-15			3.0.0	3.0.0	3.0.0
Sample collection and processing	original_sample_description	GENEPIO:0100439	The original sample description provided by the sample collector.	Provide the sample description provided by the original sample collector. The original description is useful as it may provide further details, or can be used to clarify higher level classifications.	RTE Prosciutto from deli			3.0.0	3.0.0	3.0.0
Sample collection and processing	environmental_site	GENEPIO:0001232	An environmental location may describe a site in the natural or built environment e.g. hospital, wet market, bat cave.	If applicable, select the standardized term and ontology ID for the environmental site from the picklist provided. Multiple values can be provided, separated by a semi-colon.	Poultry hatchery [ENVO:01001874]			3.0.0	3.0.0	3.0.0
			The type of animal or plant	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.bi.ac.uk/ols/ontologies/genepio. If thtps://www.bi.ac.uk/ols/ontologies/genepio. If						
Sample collection and processing	animal_or_plant_population	GENEPIO:0100443  GENEPIO:0001223	population inhabiting an area.  A substance obtained from the natural or man-made environment e.g. soil, water, sewage, door handle, bed	not applicable, leave blank.  If applicable, select the standardized term and ontology ID for the environmental material from the picklist provided. Multiple values can	Soil [ENVO:00001998]; Water [CHEBI:15377]; Wastewater [ENVO:00002001]; Broom [ENVO:03501377]			3.0.0	3.0.0	3.0.0
Sample collection and processing  Sample collection and processing	environmental_material anatomical_material	GENEPIO:0001223	handrail, face mask.  A substance obtained from an anatomical part of an organism e.g. tissue, blood.	be provided, separated by a semi-colon. An anatomical material is a substance taken from the body. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided, separated by a semi-colon	Tissue [UBERON:0000479]; Blood [UBERON:0000178]			3.0.0	3.0.0	3.0.0
Sample collection and processing	body_product	GENEPIO:0001216	A substance excreted/secreted from an organism e.g. feces, urine, sweat.	A body product is a substance produced by the body but meant to be excreted/secreted (i.e. not part of the body). If applicable, select the standardized term and ontology ID for the body product from the picklist provided. Multiple values can be provided, separated by a semi-colon	Feces [UBERON:0001988]; Urine [UBERON:0001088]			3.0.0	3.0.0	3.0.0
Sample collection and processing	anatomical_part	GENEPIO:0001214	An anatomical part of an organism e.g. oropharynx.	An anatomical part is a structure or location in the body. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided, separated by a semi-colon.				3.0.0	3.0.0	3.0.0
Sample collection and processing	anatomical_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 Label	ID	Doccription/O
	Colour Code Legend							Label	ID	Description/Gui dance
				Provide any characteristics of the food product						
				including whether it has been cooked, processed, preserved, any known information	[FOODON:00002777]; Ready-to-eat (RTE)					
			Any characteristic of the food	about its state (e.g. raw, ready-to-eat), any	[FOODON:03316636]					
			product pertaining to its state, processing, a label claim, or	known information about its containment (e.g. canned), and any information about a label						
Sample collection and processing	food_product_properties	GENEPIO:0100445	implications for consumers.	claim (e.g. organic, fat-free).				3.0.0	3.0.0	3.0.0
				Provide the common name of the animal. If not						
Sample collection and processing	animal_source_of_food	GENEPIO:0100446	The animal from which the food product was derived.	applicable, leave blank. Multiple entries can be provided, separated by a comma.				3.0.0	3.0.0	3.0.0
			A production pathway	, , ,	Beef cattle production stream					
			incorporating the processes,		[FOODON:03000452]					
			material entities (e.g. equipment, animals, locations), and							
Pample callection and processing	food product production stream	CENEDIO:0100600	conditions that participate in the	Provide the name of the agricultural production		production stream		0.07	764	0.07
Sample collection and processing	food_product_production_stream	GENEPIO:0100699	generation of a food commodity.  The type of packaging used to	stream from the picklist.  If known, provide information regarding how	Plastic tray or pan	production_stream		8.8.7	7.6.4	8.8.7
Sample collection and processing	food_packaging	GENEPIO:0100447	contain a food product.	the food product was packaged.	[FOODON:03490126]			3.0.0	3.0.0	3.0.0
			A date recommended for the use							
			of a product while at peak quality, this date is not a reflection of	This date is typically labeled on a food product as "best if used by", best by", "use by", or						
			safety unless used on infant	"freeze by" e.g. 5/24/2020. If the date is						
Sample collection and processing	food_quality_date	GENEPIO:0100615	formula.	known, leave blank or provide a null value.	2020-05-25			6.4.2	6.4.2	6.4.2
			A food product's packaging date	The packaging date should not be confused with, nor replaced by a Best Before date or						
			as marked by a food	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			6.4.2	6.4.2	6.4.2
				This field includes animal feed. If applicable, select the standardized term and ontology ID	Drag swab [OBI:0002822]					
				for the anatomical material from the picklist						
Sample collection and processing	collection device	GENEPIO:0001234	The instrument or container used to collect the sample e.g. swab.	provided. Multiple values can be provided, separated by a semi-colon.				3.0.0	3.0.0	3.0.0
Sample collection and processing	conection_device	GENEFIO.0001234	to collect the sample e.g. swab.	If applicable, provide the standardized term	Rinsing for specimen collection			3.0.0	3.0.0	3.0.0
			The process used to collect the	and ontology ID for the anatomical material	[GENEPIO_0002116]					
Sample collection and processing	collection_method	GENEPIO:0001241	sample e.g. phlebotomy, necropsy.	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	sample_volume_measurement_value	GENEPIO:0100768	The numerical value of the	Provide the numerical value of volume.	5			3.0.0	3.0.0	3.0.0
Sample collection and processing			volume measurement of the sample collected.					11.1.1	11.1.1	11.1.1
Sample collection and processing	sample_volume_measurement_unit	GENEPIO:0100769	The units of the volume	Provide the units from the pick list.	milliliter (mL) [UO:0000098]			11.1.1	11.1.1	
	oampio_voiamo_moadaromoni_ami	02.12.10.0100100	measurement of the sample	Trovido dio dinio non dio pion non	THIRMEOF (THE) [CO.COCOCOCO					
Sample collection and processing	assistant assessed at the control of	OENEDIO-0404000	collected.					11.1.1	11.1.1	11.1.1
Sample collection and processing	residual_sample_status	GENEPIO:0101090	A specification of the way that a	Provide a description of how the same was	Frozen at -20C			11.1.1	11.1.1	11.1.1
Sample collection and processing	sample_storage_method	GENEPIO:0100448	specimen is or was stored.	stored.	1 102e11 at -200			3.0.0	3.0.0	3.0.0
0		GENEPIO:0100449	The material or matrix in which a	Provide a description of the material or matrix	DDC + 000/ ml			3.0.0	3.0.0	3.0.0
Sample collection and processing	sample_storage_medium	GENEPIO:0100449 GENEPIO:0101014	sample is stored.  The numerical value of the time	used to store the sample.  Provide the numerical value of time.	PBS + 20% glycerol			3.0.0	3.0.0	3.0.0
	sample_storage_duration_value	GENEPIO.0101014	measurement during which a	Provide the numerical value of time.	5					
Sample collection and processing			sample is in storage.					11.1.1	11.1.1	11.1.1
Sample collection and processing	sample_storage_duration_unit	GENEPIO:0101015	The units of a measured sample storage duration.	Provide the units from the pick list.	Day [UO:0000033]			11.1.1	11.1.1	11.1.1
cample collection and processing	nucleic_acid_storage_duration_value		The numerical value of the time	Provide the numerical value of time.	5				11.1.1	
			measurement during which the							
Sample collection and processing		GENEPIO:0101085	extracted nucleic acid is in storage.					11.1.1	11.1.1	11.1.1
cample consensition and processing	nucleic_acid_storage_duration_unit	OLIVEI IO.OTOTOGO	The units of a measured	Provide the units from the pick list.						
		05115010 0404000	extracted nucleic acid storage		V 7110 0000000					
Sample collection and processing		GENEPIO:0101086	duration.	This field provides information about additional	Year [UO:0000036]			11.1.1	11.1.1	11.1.1
				data types that are available that may provide	Total collionii count dată					
				context for interpretation of the sequence data.						
				Provide a term from the picklist for additional data types that are available. Additional data						
			The type of data that is available,	types may require special permission to						
Sample 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
. ,			Ť	Use this field to provide free text details	Pooled metagenomes					
			Dotailed information record:	describing other available data types that may	containing extended spectrum					
Sample collection and processing	available_data_type_details	GENEPIO:0101023	Detailed information regarding other available data types.	provide context for interpreting genomic sequence data.	beta-lactamase (ESBL) bacteria			9.0.0	9.0.0	9.0.0
Environmental conditions and										
measurements				I=	-					
				Drawide the numerical death only of water	5					
	water denth	GENEPIO:0100440	The depth of some water		3			300	300	9.0.0
Environmental conditions and measurements Environmental conditions and	water_depth	GENEPIO:0100440	The depth of some water. The units of measurement for	only (without units).	m			3.0.0	3.0.0	9.0.0

B Ol	F: 1.1	0.1.1	B. C. W.	0.11	E l	Deprecated Label	Deprecated ID	Version		
Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples			Tracking Label	ID	Description/Gui
	Colour Code Legend									dance
Environmental conditions and measurements	sediment_depth	GENEPIO:0100697	The depth of some sediment.	Provide the numerical depth only of the sediment (without units).	2			7.6.4	7.6.4	9.0.0
Environmental conditions and measurements	sediment depth units	GENEPIO:0101026	The units of measurement for sec	Provide the units of measurement for which the depth was recorded.	m			9.0.0	9.0.0	9.0.0
Environmental conditions and measurements		GENEPIO:0100441	The temperature of some air.	Provide the numerical value for the temperature of the air (without units).	25			3.0.0	3.0.0	9.0.0
	air_temperature	GENEPIO:0100441	·	, , ,	celsius			3.0.0	3.0.0	9.0.0
Environmental conditions and measurements	air_temperature_units	GENEPIO:0101027	The units of measurement for air temperature.	Provide the units of measurement for which the temperature was recorded.				9.0.0	9.0.0	9.0.0
Environmental conditions and measurements	water_temperature	GENEPIO:0100698	The temperature of some water.	Provide the numerical value for the temperature of the water (without units).	4			7.6.4	7.6.4	9.0.0
Environmental conditions and measurements	water_temperature_units	GENEPIO:0101028	The units of measurement for water temperature.	Provide the units of measurement for which the temperature was recorded.	celsius			9.0.0	9.0.0	9.0.0
Environmental conditions and			The state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain,	Provide the weather conditions at the time of	Rain [ENVO:01001564]					
measurements	weather_type	GENEPIO:0100442	etc.	sample collection.				3.0.0	3.0.0	3.0.0
Host information		GENEPIO:0001268		If the sample is directly from a host, either a	Cow [NCBlTaxon:9913];					
Host information	host (common name)	GENEPIO:0001386	The commonly used name of the host.	common or scientific name must be provided (although both can be included, if known). If known, provide the common name.	Chicken [NCBITaxon:9913], Human [NCBITaxon:9606]			3.0.0	3.0.0	3.0.0
				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	Bos taurus [NCBITaxon:9913]; Homo sapiens [NCBITaxon:9103]					
Host information	host (scientific name)	GENEPIO:0001387	of the host. The biotype resulting from	picklist provided.	Sea ecotype			3.0.0	3.0.0	3.0.0
Host information	host (ecotype)	GENEPIO:0100450	selection in a particular habitat, e.g. the A. thaliana Ecotype Ler.	Provide the name of the ecotype of the host organism.				3.0.0	3.0.0	3.0.0
			A breed is a specific group of domestic animals or plants having homogeneous appearance, homogeneous behavior, and other characteristics that distinguish it from other animals or plants of the same species and that were arrived at through selective	Provide the name of the breed of the host	Holstein					
Host information	host (breed)	GENEPIO:0100451	breeding.  The name of the host at a certain	organism.	Calf [FOODON:03411349]			3.0.0	3.0.0	3.0.0
Host information	host (food production name)	GENEPIO:0100452	stage of food production, which may depend on its age or stage of sexual maturity.	Select the host's food production name from the pick list.	oun (r occornisormono)			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		GENEPIO:0001391	The name of the disease	This field is only required if the Pathogen.cl package was selected. If the host was sick, provide the name of the disease. The standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/doid if the	mastitis, gastroenteritis			3.0.0	3.0.0	3.0.0
Strain and isolation information	host_disease	GENEPIO:0001391 GENEPIO:0100453	experienced by the host.	disease is not known, put "missing".				3.0.0	3.0.0	3.0.0
			The laboratory method used to grow, prepare, and/or isolate the		MFHPB-30					
Strain and isolation information	microbiological_method	GENEPIO:0100454	microbial isolate.	laboratory that created the procedure.  A population or type of organisms that is	K12			3.0.0	3.0.0	3.0.0
Strain and isolation information	strain	GENEPIO:0100455	The strain identifier.	spendically 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.	W.E			3.0.0	3.0.0	3.0.0
ou and isolation information	Suem	GENEFIO.0100455	The Sudiii (definite).	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				3.0.0	5.0.0	5.0.0
Strain and isolation information	isolate ID	GENEPIO:0100456	Identifier of the specific isolate.	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

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description/Gu
Strain and isolation information	Colour Code Legend  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 Agrit-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	dance
	anomano_como_b		The identifier assigned to a	If your sequence data pertains to progeny of	SUB_ON_1526			0.0.0	0.0.0	0.0.0
Strain and isolation information	progeny_isolate_ID  IRIDA isolate ID	GENEPIO:0100458  GENEPIO:0100459	from a sample.  The identifier of the isolate in the IRIDA platform.	progeriv_isolate_ID. 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.	GRDI_LL_12345			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
			The name or title of the contact responsible for follow-up	Provide the name of an individual or their job title. As personnel turnover may render the contact's name obsolete, it is prefereable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided,	Enterics Lab Manager					
Strain and isolation information	isolated_by_contact_name isolated_by_contact_email	GENEPIO:0100463  GENEPIO:0100464	regarding the isolate.  The email address of the contact responsible for follow-up regarding the isolate.	leave blank or provide a null value.  Provide the email associated with the listed contact. As personnel turnover may render an individual's email ossolete, 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
Strain and isolation information	isolate_received_date	GENEPIO:0100466	The date on which the isolate was received by the laboratory.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".  Put the genus and species (and subspecies if applicable) of the bacteria. if known. The	2020-11-15 Salmonella enterica subsp. enterica [NCBITaxon:59201]			3.0.0	3.0.0	3.0.0
Strain and isolation information	organism	GENEPIO:0001191	Taxonomic name of the organism.	standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/ncbitaxon.	[			3.0.0	3.0.0	3.0.0
Strain and isolation information	taxonomic_identification_process	GENEPIO:0100583	The type of planned process by which an organismal entity is associated with a taxon or taxa.	Provide the type of method used to determine the taxonomic identity of the organism by selecting a value from the pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.	PCR assay [OBI:0002740]			4.2.1	4.2.1	4.2.1
Strain and isolation information	taxonomic_identification_process_details	GENEPIO:0100584	The details of the process used to determine the taxonomic identification of an organism.	Briefly describe the taxonomic identififcation method details using free text.	Biolog instrument			4.2.1	4.2.1	4.2.1

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description/Gu
	Colour Code Legend							Label	ID.	dance
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
Strain and isolation information	serotyping_method	GENEPIO:0100468	The method used to determine the serovar.	If the serovar was determined via traditional serotyping methods, put "Traditional serotyping". If the serovar was determined via in silico methods, provide the name and version number of the software.	SISTR 1.0.1			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		GENEPIO:0001441								
Sequence information	library_ID	GENEPIO:0001448	The user-specified identifier for the library prepared for sequencing.	Every "library ID" from a single submitter must be unique. It can have any format, but we suggest that you make it concise, unique and consistent within your lab, and as informative as possible.				3.0.0	3.0.0	3.0.0
Sequence information	sequenced_by	GENEPIO:0100416	The name of the agency, organization or institution responsible for sequencing the isolate's genome.	Provide the name of the agency, organization or institution that performed the sequencing in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank o provide a null value.	Canada (PHAC) [GENEPIO:0100551]			3.0.0	3.0.0	3.0.0
Sequence information	sequenced_by_laboratory_name	GENEPIO:0100470	The specific laboratory affiliation of the responsible for sequencing the isolate's genome.	Provide the name of the specific laboratory that that performed the sequencing in full (avoid abbreviations). If the information is y unknown or cannot be provided, leave blank o provide a null value.	Topp Lab			3.0.0	3.0.0	3.0.0
Sequence information	sequenced_by_contact_name	GENEPIO:0100471	The name or title of the contact responsible for follow-up regarding the sequence.	Provide the name of an individual or their job title. As personnel tumover may render the contact's name obsolete, it is more prefereable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Sequence information	sequenced by contact email	GENEPIO:0100422	The email address of the contact responsible for follow-up regarding the sequence.	Provide the email associated with the listed contact. As personnel turnover may render an individual's semail obsolete, it is more prefereable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.				3.0.0	3.0.0	3.0.0
Sequence information	purpose_of_sequencing	GENEPIO:0001445	The reason that the sample was sequenced.	Provide the reason for sequencing by selecting a value from the following pick list: Diagnostic testing, Surveillance, Monitoring, Clinical trial, Field experiment, Environmental testing. If the information is unknown or canno	Research [GENEPIO:0100003]			3.0.0	3.0.0	3.0.0
			The name of the project/initiative/program for which sequencing was	Provide the name of the project and/or the project ID here. If the information is unknown or cannot be provided, leave blank or provide	AMR-GRDI (PA-1356)					
Sequence information	sequencing_project_name	GENEPIO:0100472	performed.  The platform technology used to	a null value.  Provide the name of the company that created the sequencing instrument by selecting a value from the template pick list. If the information is unknown or cannot be provided,	,			3.0.0	3.0.0	3.0.0
Sequence information	sequencing_platform	GENEPIO:0100473	perform the sequencing.  The model of the sequencing	leave blank or provide a null value.  Provide the model sequencing instrument by selecting a value from the template pick list. If the information is unknown or cannot be	Illumina HiSeq 2500 [GENEPIO:0100117]			3.0.0	3.0.0	3.0.0
Sequence information	sequencing assay type	GENEPIO:0001452 GENEPIO:0100997	instrument used.  The overarching sequencing methodology that was used to determine the sequence of a biomaterial.	provided, leave blank or provide a null value.  Example Guidance: Provide the name of the DNA or RNA sequencing technology used in your study. If unsure refer to the protocol decumentation or provide a null value.	whole genome sequencing assay [OBI:0002117]			3.0.0	3.0.0	3.0.0
Sequence information	sequencing_assay_type library_preparation_kit	GENEPIO:0001450	The name of the DNA library preparation kit used to generate the library being sequenced.	documentation, or provide a null value.  Provide the name of the library preparation kit used.	Nextera XT			3.0.0	3.0.0	3.0.0
Sequence information	DNA fragment length	GENEPIO:0100843	The length of the DNA fragment generated by mechanical shearing or enzymatic digestion for the purposes of library preparation.	Provide the fragment length in base pairs (do not include the units).	400			11.1.1	11.1.1	11.1.1
Sequence information	genomic target enrichment method	GENEPIO:0100966	' '	Provide the name of the enrichment method	Hybrid selection method (bait-capture) [GENEPIO:0001950]			11.1.1	11.1.1	11.1.1

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking	15	December 10
	Colour Code Legend							Label	ID	Description/Gu dance
Sequence information	genomic target enrichment method details	GENEPIO:0100967	Details that provide additional context to the molecular technique used to selectively capture and amplify specific regions of interest from a genome.	Provide details that are applicable to the method you used. Note: If ball-capture methods were used for enrichment, provide the panel name and version number (or a URL providing that information).	enrichment was done using Twist's respiratory virus research panel: https://www.twistbioscience.co m/products/ngs/fixed-panels/re spiratory-virus-research-panel			11.1.1	11.1.1	11.1.1
Sequence information	amplicon pcr primer scheme	GENEPIO:0001456	The specifications of the primers (primer sequences, binding positions, fragment size generated etc) used to generate the amplicons to be sequenced.	Provide the name and version of the primer scheme used to generate the amplicons for sequencing.	artic v3			11.1.1	11.1.1	11.1.1
Sequence information	amplicon size	GENEPIO:0001449	The length of the amplicon generated by PCR amplification.	Provide the amplicon size expressed in base pairs.	300			11.1.1	11.1.1	11.1.1
Sequence information	sequencing flow cell version	GENEPIO:0101102	The version number of the flow cell used for generating sequence data.	Flow cells can vary in terms of design, chemistry, capacity, etc. The version of the flow cell used to generate sequence data can affect sequence quantity and quality. Record the version of the flow cell used to generate sequence data. Do not include "version" or "v" in the version number.	R.9.4.1		GENEPIO:0101084	11.1.1	11.1.1	11.1.1
Sequence information	sequencing_protocol	GENEPIO:0001454	The protocol or method used for sequencing.	Provide the name and version of the procedure or protocol used for sequencing. You can also provide a link to a protocol online.	https://www.protocols.io/view/n cov-2019-sequencing-protocol- bbmuik6w?version_warning=n Q			3.0.0	3.0.0	3.0.0
Sequence information	r1_fastq_filename	GENEPIO:0001476	The user-specified filename of the r1 FASTQ file.	Provide the r1 FASTQ filename.	ABC123_S1_L001_R1_001.fa stq.gz			3.0.0	3.0.0	3.0.0
Sequence information	r2_fastq_filename	GENEPIO:0001477	The user-specified filename of the r2 FASTQ file.	Provide the r2 FASTQ filename.	ABC123_S1_L001_R2_001.fa stq.gz			3.0.0	3.0.0	3.0.0
Sequence information	fast5_filename	GENEPIO:0001480	The user-specified filename of the FAST5 file.	Provide the FAST5 filename.	batch1a_sequences.fast5			3.0.0	3.0.0	3.0.0
Sequence information	assembly_filename	GENEPIO:0001461	The user-defined filename of the FASTA file.	Provide the FASTA filename.	pathogenassembly123.fasta			3.0.0	3.0.0	3.0.0
Bioinformatics and QC metrics		GENEPIO:0001457								
Bioinformatics and QC metrics	quality control method name	GENEPIO:0100557	The name of the method used to assess whether a sequence passed a predetermined quality control threshold.	Providing the name of the method used for quality control is very important for interpreting the rest of the QC information. Method names can be provided as the name of a pipeline or a link to a Gill-tube repository. Multiple methods should be listed and separated by a semi-colon. Do not include QC tags in other fields if no method name is provided.				11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	quality control method version	GENEPIO:0100558	The version number of the method used to assess whether a sequence passed a predetermined quality control threshold.	Methods updates can make big differences to their outputs. Provide the version of the method used for quality control. The version can be expressed using whatever convention the developer implements (e.g. date, semantic versioning). If multiple methods were used, record the version numbers in the same order as the method names. Separate the version numbers using a semi-colon.				11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	quality control determination	GENEPIO:0100559	The determination of a quality control assessment.	Select a value from the pick list provided. If a desired value is missing, submit a new term request to the PHA4GE QC Tag GitHub issuetracker using the New Term Request form.	sequence failed quality control			11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	quality control issues	GENEPIO:0100560	The reason contributing to, or causing, a low quality determination in a quality control assessment.	Select a value from the pick list provided. If a desired value is missing, submit a new term request to the PHA4GE QC Tag GitHub issuetracker using the New Term Request form.	low average genome coverage			11.1.1	11.1.1	11.1.1
D		OENEDIO ALABEAL	The details surrounding a low quality determination in a quality		CT value of 39. Low viral load. Low DNA concentration after					
Bioinformatics and QC metrics  Bioinformatics and QC metrics	quality control details raw sequence data processing method	GENEPIO:0001458	The method used for raw data processing such as removing barcodes, adapter trimming, filtering etc.	using free text.  Raw data processing can have a significant impact on data quality and how it can be used. Provide the names and version numbers of software used for trimming adaptors, quality filtering, etc (e.g. Trimmomatic v. 0.38, Porechop v. 0.2.3), or a link to a GitHub protocol.	amplification.  Porechop 0.2.3			11.1.1	11.1.1	11.1.1
Diominimated and QO motiles			The method used to remove host reads from the pathogen	Provide the name and version number of the						
	deheating method	CENEDIO:0001450			Monostrinner			44.4.4	44.4.4	44 4 4
Bioinformatics and QC metrics Bioinformatics and QC metrics	dehosting method sequence assembly software name	GENEPIO:0001459  GENEPIO:0100825	sequence.	software used to remove host reads.  Provide the name of the software used to assemble the sequence.	Nanostripper SPAdes Genome Assembler, Canu, wtdbg2, velvet			11.1.1	11.1.1	11.1.1

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking	10	
	Colour Code Legend						Label	ID	Description/G dance
	J		The name of the software used to						
Bioinformatics and QC metrics	consensus sequence software name	GENEPIO:0001463	generate the consensus sequence.	Provide the name of the software used to generate the consensus sequence.	iVar		11.1.1	11.1.1	11.1.1
normanos ana Qo menes	conscisus sequence sortware name	OENEI 10.0001400	The version of the software used	generate the consensus sequence.	1461		11.1.1		
N-i-f		OENEDIO 0004 400	to generate the consensus	Provide the version of the software used to	4.0		44.4.4	44.4.4	44.4.4
lioinformatics and QC metrics	consensus sequence software version	GENEPIO:0001469	sequence. The percentage of the reference	generate the consensus sequence.	1.3		11.1.1	11.1.1	11.1.1
			genome covered by the						
Bioinformatics and QC metrics	breadth of coverage value	GENEPIO:0001472	sequenced data, to a prescribed depth.	Provide value as a percent.	95		11.1.1	11.1.1	11.1.1
ionnomiatos ana qo motilos	product of corolage value	OLINE TO GOOT TIE	The average number of reads	Torrae raide de a porcent.	00				
sioinformatics and QC metrics	depth of coverage value	GENEPIO:0001474	representing a given nucleotide in the reconstructed sequence.	Provide value as a fold of coverage.	400		11.1.1	11.1.1	11.1.1
sioinformatics and QC metrics	depth of coverage value	GENEPIO:0001474	The threshold used as a cut-off	Provide value as a fold of coverage.	400		11.1.1	11.1.1	11.1.1
ioinformatics and QC metrics	depth of coverage threshold	GENEPIO:0001475	for the depth of coverage.	Provide the threshold fold coverage.	100		11.1.1	11.1.1	11.1.1
			The percentage of expected						
			genes identified in the genome being sequenced. Missing genes						
sioinformatics and QC metrics	genome completeness	GENEPIO:0100844		Provide the genome completeness as a percent (no need to include units).	85		11.1.1	11.1.1	11.1.1
sioinformatics and QC metrics	genome completeness	GENEPIO:0100844	The number of total base pairs	percent (no need to include units).	80		11.1.1	11.3.3	11.1.1
			generated by the sequencing	Provide a numerical value (no need to include					
ioinformatics and QC metrics	number of base pairs sequenced	GENEPIO:0001482	process.	units).	387566		11.1.1	11.1.1	11.1.1
			The total number of non-unique reads generated by the	Provide a numerical value (no need to include					
Bioinformatics and QC metrics	number of total reads	GENEPIO:0100827	sequencing process.	units).	423867		11.1.1	11.1.1	11.1.1
			The number of unique reads generated by the sequencing	Provide a numerical value (no need to include					
Bioinformatics and QC metrics	number of unique reads	GENEPIO:0100828	process.	units).	248236		11.1.1	11.1.1	11.1.1
			The threshold used as a cut-off	Describes a supposition to the first to the description of the state o					
ioinformatics and QC metrics	minimum post-trimming read length	GENEPIO:0100829	after trimming.	Provide a numerical value (no need to include units).	150		11.1.1	11.1.1	11.1.1
			The number of contigs						
sioinformatics and QC metrics	number of contias	GENEPIO:0100937	(contiguous sequences) in a sequence assembly.	Provide a numerical value.	10		11.1.1	11.1.1	11.1.1
Jointonnados ana Qo modios	nambor or corrage	OLIVE: 10.0100007	The percentage of the assembly	Torido a namorida value.					
Bioinformatics and QC metrics	percent Ns across total genome length	GENEPIO:0100830	that consists of ambiguous bases (Ns).	Provide a numerical value (no need to include units).	2		11.1.1	11.1.1	11.1.1
bioiniornatics and QC metrics	percent ivs across total genome length	GENEPIO.0100030	The number of ambiguous bases	units).	2		11.1.1	11.1.1	11.1.1
			(Ns) normalized per 100	Provide a numerical value (no need to include					
Bioinformatics and QC metrics	Ns per 100 kbp	GENEPIO:0001484	kilobasepairs (kbp). The length of the shortest read	units).	342		11.1.1	11.1.1	11.1.1
			that, together with other reads,						
			represents at least 50% of the nucleotides in a set of						
Bioinformatics and QC metrics	N50	GENEPIO:0100938	sequences.	Provide the N50 value in Mb.	150		11.1.1	11.1.1	11.1.1
			The percent of the total number						
			of reads identified as contamination (not belonging to						
N-i-f		OENEDIO 0400045	the target organism) in a	Provide the percent contamination value (no	2		44.4.4	44.4.4	44.4.4
lioinformatics and QC metrics	percent read contamination	GENEPIO:0100845	sequence dataset. The length of the genome	need to include units).			11.1.1	11.1.1	11.1.1
			generated by assembling reads						
ioinformatics and QC metrics	sequence assembly length	GENEPIO:0100846	using a scaffold or by reference-based mapping.	Provide a numerical value (no need to include units).	34272		11.1.1	11.1.1	11.1.1
			The length of the genome	,					
Bioinformatics and QC metrics	consensus genome length	GENEPIO:0001483	defined by the most common nucleotides at each position.	Provide a numerical value (no need to include units).	38677		11.1.1	11.1.1	11.1.1
nonnonnancs and QC metrics	consensus genome lengui	GENEFIO.0001403		Provide the accession number of the reference			11.1.1	11.1.1	11.1.1
sioinformatics and QC metrics	reference genome accession	GENEPIO:0001485	genome database entry.	genome.	NC_045512.2		11.1.1	11.1.1	11.1.1
			The method used to remove duplicated reads in a sequence	Provide the deduplication software name followed by the version, or a link to a tool or					
sioinformatics and QC metrics	deduplication method	GENEPIO:0100831	read dataset.	method.	DeDup 0.12.8		11.1.1	11.1.1	11.1.1
				Further details regarding the methods used to					
				process raw data, and/or generate assemblies, and/or generate consensus					
				sequences can. This information can be					
				provided in an SOP or protocol or pipeline/workflow. Provide the name and					
N-i-f	hi-i-f	OENEDIO 0004400	A description of the overall	version number of the protocol, or a GitHub	https://github.com/phac-nml/nc		44.4	44.4	44.4.4
ioinformatics and QC metrics axonomic identification	bioinformatics protocol	GENEPIO:0001489	bioinformatics strategy used.	link to a pipeline or workflow.	ov2019-artic-nf		11.1.1	11.1.1	11.1.1
formation		GENEPIO:0101082							
			The name of the software used to						
			map sequence reads to a reference genome or set of	Provide the name of the read mapping					
axonomic identification information	read mapping software name	GENEPIO:0100832	reference genes.	software.	Bowtie2, BWA-MEM, TopHat		11.1.1	11.1.1	11.1.1

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

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking	ID	Description
	Colour Code Legend							Label	טו	Description/Gu dance
				Risk assessment requires detailed information regarding the quantities of a pathogen in a specified location, commodity, or environment. As such, it is useful for risk assessors to know what types of information are available through documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the roick list. The metrics of interest	collected, Number of positive samples					
isk assessment information	prevalence metrics	GENEPIO:0100480	Metrics regarding the prevalence of the pathogen of interest obtained from a surveillance project.	are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism", "Average count of indicator organism". You do not need to provide the actual values, just indicate that the information is available.				3.0.0	3.0.0	3.0.0
isk assessment information	prevalence_metrics_details	GENEPIO:0100481	The details pertaining to the prevalence metrics from a surveillance project.	If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.				3.0.0	3.0.0	3.0.0
tisk assessment information	stage_of_production	GENEPIO:0100482	The stage of food production.	Provide the stage of food production as free text.	Abattoir			3.0.0	3.0.0	3.0.0
Risk assessment information		GENEPIO:0100483	The category of the experimental intervention applied in the food	In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick	Vaccination [NCIT:C15346]					3.0.0
Risk assessment information	experimental_intervention  experiment_intervention_details	GENEPIO:0100483	production system.  The details of the experimental intervention applied in the food production system.	list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.	2% cranberry solution mixed in feed			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	experiment_intervention_details	GENEPIO:0100484	production system.	text.				3.0.0	3.0.0	3.0.0
Antimicrobial resistance	antimicrobial_agent_name	GENEPIO:0100521	The name of the agent that kills or slows the growth of microorganisms, including bacteria, viruses, fungi and protozoans.	The names of the drug have already been matched with measurement, breakpoint, and phenotype fields in the template. No need to add these unless the drug of interest is not present. Use the Term Request System to request the addition of other agents.	Amoxicillin-clavulanic [ARO:3003997]			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by	GENEPIO:0100511	The name of the organization that performed the antimicrobial resistance testing.	Provide the name of the agency, organization or institution that performed the AMR testing, in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Canadian Food Inspection Agency (CFIA) [GENEPIO:0100552]			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by_laboratory_name	GENEPIO:0100512	The name of the lab within the organization that performed the antimicrobial resistance testing.	Provide the name of the specific laboratory that performed the AMR testing (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Topp Lab			3.0.0	3.0.0	3.0.0
		GENEPIO:0100513	The name of the individual or the individual's role in the organization that performed the	Provide the name of an individual or their job title. As personnel tumover may render the contact's name obsolete, it is more preferable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided,	Enterics Lab Manager			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by_contact_name	GENEFIC.UIUS13	antimicrobial resistance testing.  The email of the individual or the individual's role in the organization that performed the	leave blank or provide a null value.  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 or				3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMR_testing_by_contact_email	GENEPIO:0100514	antimicrobial resistance testing.  The date the antimicrobial resistance testing was	provide a null value.  Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or	2022-04-03	3		3.0.0	3.0.0	3.0.0
ntimicrobial resistance	AMR_testing_date	GENEPIO:0100515	performed.  The antimicrobial resistance phenotype, as determined by the antibiotic susceptibility	"YYYY".	Susceptible antimicrobial phenotype [ARO:3004302]			3.0.0	3.0.0	3.0.0
Antimicrobial resistance	antimicrobial_resistance_phenotype		measurement and testing 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
Antimicrobial resistance	antimicrobial_measurement_units		The units of the antimicrobial resistance measurement.	Select the units from the pick list provided. Use the Term Request System to request the addition of other units if necessary.	ug/mL [UO:0000274]			7.7.5		3.0.0
Antimicrobial resistance	antimicrobial measurement sign		The qualifier associated with the antibiotic susceptibility measurement	Select the comparator sign from the pick list provided. Use the Term Request System to request the addition of other signs if necessary.	greater than (>) [GENEPIO:0001006]			7.7.5		3.0.0

5/30/2024

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