Field	Ontology Identifier	Definition	Guidance	Evennles	Deprecated Label	Deprecated ID	Version		
	Ontology Identifier	Delinition	Guidance	Examples			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	GENEPIO:0001150								
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
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 ie. 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 Multiple identifiers can be provided and separated by semi-colons. If the information is unknown or cannot be provided, leave blank o provide anult value.				3.0.0	3.0.0	3.0.0
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 o provide a null value.	Canada (PHAC) [GENEPIO:0100551]			3.0.0	3.0.0	3.0.0
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
sample_collection_project_name	GENEPIO:0100429	The name of the project/initiative/program for which the sample was collected.	Provide the name of the project and/or the project ID here. If the information is unknown or cannot be provided, leave blank or provide a null value.	Watershed Project (HA-120)			3.0.0	3.0.0	3.0.0
sample_plan_name	GENEPIO:0100430	The name of the study design for a surveillance project.	provide a null value.	Baseline Study in Broiler Chicken			3.0.0	3.0.0	3.0.0
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_collector_contact_name	GENEPIO:0100432	The name or job title of the contact responsible for follow-up regarding the sample.	Provide the name of an individual or their job title. As personnel turnover may render the contact's name obsolete, it is more preferable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.	Enterics Lab Manager			3.0.0	3.0.0	3.0.0

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking		
Colour Code Legend						Label	ID	Description/Gu dance
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 or provide a null value.	johnnyblogs@lab.ca		3.0.0	3.0.0	3.0.0
purpose_of_sampling	GENEPIO:0001198	The reason that the sample was collected.	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
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.	Antimicrobial pre-treatment [GENEPIO:0100537]		3.0.0	3.0.0	3.0.0
presampling_activity_details	GENEPIO:0100434	The details of the activities or variables introduced upstream of sample collection that may affect the sample collected.	Briefly describe the presampling activity details using free text.	Chicken feed containing X 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 experimental methodology that was used to process the biomaterial.	-	OneHealth2024_protocol		11.1.1	11.1.1	11.1.1
experimental_specimen_role _type	GENEPIO:0100921	The type of role that the sample represents in the experiment.	Samples can play different types of roles in experiments. A sample under study in one experiment may act as a control or be a replicate of another sample in another	Positive experimental control [GENEPIO:0101018]		11.1.1	11.1.1	11.1.1
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	Samples pooled [OBI:0600016]		3.0.0	3.0.0	3.0.0
nucleic acid extraction method	GENEPIO:0100939	The process used to extract genomic material from a sample.	Briefly describe the extraction method used.	Direct wastewater RNA capture and purification via the "Sewage, Salt, Silica and Salmonella (4S)" method v4 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.					
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. If the information is unknown or cannot be provided, provide a null value.	Canada [GAZ:00002560]		3.0.0	3.0.0	3.0.0
geo_loc_name (country)	GENETIO:0001101	The state/province/territory of		British Columbia [GAZ:00002562]		3.0.0	3.0.0	3.0.0
geo_loc_name (state/province/region)	GENEPIO:0001185	origin of the sample. The name of a specific geographical location e.g. Credit	provide a null value. Provide the name of the specific geographical site using a specific noun (a word that names	Credit River		3.0.0	3.0.0	3.0.0
geo_loc_name (site) food_product_origin geo_loc_name (country)	GENEPIO:0100436 GENEPIO:0100437	River (rather than river). The country of origin of a food product.	a certain place, thing). 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 or provide a null value.	United States of America [GAZ:00002459]		3.0.0	3.0.0	3.0.0

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/Gui
Colour Code Legend						Lubei	15	dance
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.	South Africa [GAZ:00001094]		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, nor the centre of the city/region where the sample was collected as this falsely implicates an existing geographical location and creates data inaccuracies. If the information is unknown or cannot be provided, leave blank or	38.98 N				
geo_loc latitude	GENEPIO:0100309	collection.	provide a null value.			3.0.0	3.0.0	3.0.0
geo_loc longitude	GENEPIO:0100310	The longitude coordinates of the geographical location of sample collection.	If known, provide the degrees longitude. Do NOT simply provide longitude of the institution if this is not where the sample was collected, nor the centre of the city/region where the sample was collected as this falsely implicates an existing geographical location and creates data inaccuracies. If the information is unknown or cannot be provided, leave blank or provide a null value.	77.11 W		3.0.0	3.0.0	3.0.0
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_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_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
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
environmental_site	GENEPIO:0001232	An environmental location may describe a site in the natural or built environment e.g. hospital, wet market, bat cave.	If applicable, select the standardized term and ontology ID for the environmental site from the picklist provided. Multiple values can be provided, separated by a semi-colon.			3.0.0	3.0.0	3.0.0
animal_or_plant_population	GENEPIO:0100443	The type of animal or plant population inhabiting an area.	This field should be used when a sample is taken from an environmental location inhabited by many individuals of a specific type, rather than describing a sample taken from one particular host. If applicable, provide the standardized term and ontology ID for the animal or plant population name. The standardized term can be sourced from this look-up service: https://www.ebi.ac.ul/ols/ontologies/genepio. If not applicable, leave blank.			3.0.0	3.0.0	3.0.0
	CLIALI IO.0100443	A substance obtained from the natural or man-made environment e.g. soil, water, sewage, door handle, bed	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]		0.0.0	5.0.0	5.5.0
environmental_material	GENEPIO:0001223	handrail, face mask.	be provided, separated by a semi-colon.	[=		3.0.0	3.0.0	3.0.0
environmental material constituent	GENEPIO:0101197	The material constituents that comprise an environmental material e.g. a pipe that is lined with lead.	If applicable, describe the material constituents for the environmental material. Multiple values can be provided, separated by a semi-colon.	lead; plastic		12.2.2	12.2.2	12.2.2

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label	Deprecated ID	Version Tracking Label	ID	Description/Gui
Colour Code Legend							Label	וט	Description/Gui dance
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
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
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 tern 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
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
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
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 about alabel claim (e.g. organic, fat-free).				3.0.0	3.0.0	3.0.0
Tooa_product_properties	FOODON:03602001	The claim made by the label that relates to food processing,	Provide any characteristic of the food product, as described on the label only.	Antibiotic free [FOODON:03601063]					
label_claim		allergen information etc.	Provide the common name of the animal. If not	Chicken [NCBITaxon:9031]			12.2.2	12.2.2	12.2.2
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
food product production stream	GENEPIO:0100699	A production pathway incorporating the processes, material entities (e.g. equipment, animals, locations), and conditions that participate in the generation of a food commodity.	Provide the name of the agricultural production stream from the picklist.	Beef cattle production stream [FOODON:03000452]	production stream		8.8.7	7.6.4	8.8.7
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
food_quality_date	GENEPIO:0100615	A date recommended for the use of a product while at peak quality, this date is not a reflection of safety unless used on infant formula.	This date is typically labeled on a food product as "best if used by", best by", "use by", or "freeze by" e.g. 5/24/2020. If the date is known, leave blank or provide a null value.	2020-05-25			6.4.2	6.4.2	6.4.2
	GENEPIO:0100616	A food product's packaging date as marked by a food manufacturer or retailer.	The packaging date should not be confused with, nor replaced by a Best Before date or other food quality date. If the date is known, leave blank or provide a null value.	2020-05-25			6.4.2	6.4.2	6.4.2
food_packaging_date	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	Drag swab [OBI:0002822]			3.0.0	3.0.0	3.0.0
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_volume_measurement_value	GENEPIO:0100768	The numerical value of the volume measurement of the sample collected.	Provide the numerical value of volume.	5	5		11.1.1	11.1.1	11.1.1

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/Gu
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sample_volume_measurement_unit	GENEPIO:0100769	The units of the volume measurement of the sample	Provide the units from the pick list.	milliliter (mL) [UO:0000098]		11.1.1	11.1.1	11.1.1
esidual_sample_status	GENEPIO:0101090	collected.				11.1.1	11.1.1	11.1.1
sample_storage_method	GENEPIO:0100448	A specification of the way that a specimen is or was stored.	Provide a description of how the same was stored.	Frozen at -20C		3.0.0	3.0.0	3.0.0
ample_storage_medium	GENEPIO:0100449	The material or matrix in which a sample is stored.	Provide a description of the material or matrix used to store the sample.	PBS + 20% glycerol		3.0.0	3.0.0	3.0.0
sample_storage_duration_value	GENEPIO:0101014	The numerical value of the time measurement during which a sample is in storage.	Provide the numerical value of time.			11.1.1	11.1.1	11.1.1
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
nucleic_acid_storage_duration_value	GENEPIO:0101085	The numerical value of the time measurement during which the extracted nucleic acid is in storage.	Provide the numerical value of time.	5		11.1.1	11.1.1	11.1.1
nucleic_acid_storage_duration_unit		The units of a measured extracted nucleic acid storage	Provide the units from the pick list.					
	GENEPIO:0101086	duration.		Year [UO:0000036]		11.1.1	11.1.1	11.1.1
available data types	GENEPIO:0100690	The type of data that is available, that may or may not require permission to access.	This field provides information about additional data types that are available that may provide context for interpretation of the sequence data. Provide a term from the picklist for additional data types that are available. Additional data types may require special permission to access. Contact the data provider for more information.			3.0.0	3.0.0	3.0.0
ıvailable_data_type_details	GENEPIO:0101023	Detailed information regarding other available data types.	Use this field to provide free text details describing other available data types that may provide context for interpreting genomic sequence data.	Pooled metagenomes containing extended spectrum beta-lactamase (ESBL) bacteria		9.0.0	9.0.0	9.0.0
water_depth	GENEPIO:0100440	The depth of some water.	Provide the numerical depth only of water only (without units).	5		3.0.0	3.0.0	9.0.0
vater_depth_units	GENEPIO:0101025	The units of measurement for water depth.	Provide the units of measurement for which the depth was recorded.	m		9.0.0	9.0.0	9.0.0
ediment_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
ediment depth units	GENEPIO:0101026		Provide the units of measurement for which the depth was recorded.	m		9.0.0	9.0.0	9.0.0
			Provide the numerical value for the	25				
ir_temperature	GENEPIO:0100441	The temperature of some air.	temperature of the air (without units).			3.0.0	3.0.0	9.0.0
ir_temperature_units	GENEPIO:0101027	The units of measurement for air temperature.	Provide the units of measurement for which the temperature was recorded.	celsius		9.0.0	9.0.0	9.0.0
vater_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
vater_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
		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]				
veather_type	GENEPIO:0100442	etc.	sample collection.			3.0.0	3.0.0	3.0.0
iost (common name)	GENEPIO:0001268 GENEPIO:0001386	The commonly used name of the host.	If the sample is directly from a host, either a common or scientific name must be provided (although both can be included, if known). If known, provide the common name.	Cow [NCBITaxon:9913]; Chicken [NCBITaxon:9913], Human [NCBITaxon:9606]		3.0.0	3.0.0	3.0.0
nos (common mane)	SEINE 10.0001300		If the sample is directly from a host, either a common or scientific name must be provided (although both can be included, if known). If known, select the scientific name from the	Bos taurus [NCBITaxon:9913]; Homo sapiens [NCBITaxon:9103]		5.0.0	5.0.0	3.0.0
nost (scientific name)	GENEPIO:0001387	of the host.	picklist provided.			3.0.0	3.0.0	3.0.0

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Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking		
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Soloui Code Legeria		The biotype resulting from		Sea ecotype				dance
nost (ecotype)	GENEPIO:0100450	selection in a particular habitat,	Provide the name of the ecotype of the host organism.			3.0.0	3.0.0	3.0.0
nost (breed)	GENEPIO:0100451	A breed is a specific group of domestic animals or plants having homogeneous appearance, homogeneous behavior, and other characteristics that distinguish it from other animals or plants of the same species and that were arrived at through selective breeding.	Provide the name of the breed of the host organism.	Holstein		3.0.0	3.0.0	3.0.0
ost (food production name)	GENEPIO:0100452	The name of the host at a certain stage of food production, which may depend on its age or stage of sexual maturity.	Select the host's food production name from the pick list.	Calf [FOODON:03411349]		3.0.0	3.0.0	3.0.0
nost_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
nost_disease	GENEPIO:0001391	The name of the disease experienced by the host.	This field is only required if the Pathogen.cl package was selected. If the host was sick, provide the name of the disease. The standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/doid If the disease is not known, put "missing".	mastitis, gastroenteritis		3.0.0	3.0.0	3.0.0
	GENEPIO:0100453							
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	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
solate ID	GENEPIO:0100456	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.	SA20131043		3.0.0	3.0.0	3.0.0
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. XYZ4567[CFIA] Multiple alternative isolate IDs can be provided, separated by semi-colons.	GHIF3456[PHAC]; QWICK222[CFIA]		3.0.0	3.0.0	3.0.0
	52.12.13.5130 W	The identifier assigned to a	If your sequence data pertains to progeny of	SUB_ON_1526		5.5.5	5.5.5	0.0.0

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/Gu
Colour Code Legend						Label	טו	dance
IRIDA_isolate_ID	GENEPIO:0100459	The identifier of the isolate in the IRIDA platform.	Provide the "sample ID" used to track information linked to the isolate in IRIDA. IRIDA sIRIDA simple 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
	OENEDIO 0400400	The identifier of the Project in the		660				
IRIDA_project_ID isolated_by	GENEPIO:0100460 GENEPIO:0100461	iRIDA platform. The name of the agency, organization or institution with which the individual who performed the isolation procedure is affiliated.	Provide the IRIDA "project ID". 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
isolated_by	GENETIO:0100401	procedure is anniated.	Provide the name of the specific laboratory	Topp Lab		0.0.0	0.0.0	0.0.0
isolated_by_laboratory_name	GENEPIO:0100462	The specific laboratory affiliation of the individual who performed the isolation procedure.	that that isolated the original isolate (avoid abbreviations). 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
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
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
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
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".	2020-11-1		3.0.0	3.0.0	3.0.0
organism	GENEPIO:0001191	Taxonomic name of the organism.	Put the genus and species (and subspecies if applicable) of the bacteria, if known. The standardized term can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/ncbitaxon.	Salmonella enterica subsp. enterica [NCBITaxon:59201]		3.0.0	3.0.0	3.0.0
tavanamia idantification 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
taxonomic_identification_process	GENEPIO.0100563	The details of the process used	leave blank or provide a null value.	Biolog instrument		4.2.1	4.2.1	4.2.1
tavanamia idantification assess defe	GENEPIO:0100584	to determine the taxonomic	Briefly describe the taxonomic identififcation	J		4.2.1	4.2.1	4.2.1
taxonomic_identification_process_details	GENEPIO:0100584 GENEPIO:0100467	identification of an organism. The serovar of the organism.	method details using free text. 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
		The method used to determine	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	SISTR 1.0.1				
serotyping_method	GENEPIO:0100468	the serovar.	version number of the software.			3.0.0	3.0.0	3.0.0
phagetype	GENEPIO:0100469 GENEPIO:0001441	The phagetype of the organism.	Provide if known. If unknown, put "missing".	4		3.0.0	3.0.0	3.0.0

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated I	Version Tracking Label	ID	Description/Gui
Colour Code Legend	GENEPIO:0001448	The user-specified identifier for the library prepared for sequencing.	Every "library ID" from a single submitter must be unique. It can have any format, but we suggest that you make it concise, unique and consistent within your lab, and as informative as possible.	LS_2010_NP_123446		3.0.0	3.0.0	3.0.0
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 or provide a null value.	Public Health Agency of Canada (PHAC) [GENEPIO:0100551]		3.0.0	3.0.0	3.0.0
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 unknown or cannot be provided, leave blank or provide a null value.	Topp Lab		3.0.0	3.0.0	3.0.0
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 turnover 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.	Enterics Lab Manager		3.0.0	3.0.0	3.0.0
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 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
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 cannot be provided, leave blank or provide a null value.	Research [GENEPIO:0100003]		3.0.0	3.0.0	3.0.0
sequencing_project_name	GENEPIO:0100472	The name of the project/initiative/program for which sequencing was performed.	Provide the name of the project and/or the project ID here. If the information is unknown or cannot be provided, leave blank or provide a null value.	AMR-GRDI (PA-1356)		3.0.0	3.0.0	3.0.0
sequencing_platform	GENEPIO:0100473	The platform technology used to perform the sequencing.	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, leave blank or provide a null value.	Illumina [GENEPIO:0001923]		3.0.0	3.0.0	3.0.0
sequencing_instrument	GENEPIO:0001452	The model of the sequencing instrument used.	Provide the model sequencing instrument 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.	Illumina HiSeq 2500 [GENEPIO:0100117]		3.0.0	3.0.0	3.0.0
sequencing_assay_type	GENEPIO:0100997	The overarching sequencing methodology that was used to determine the sequence of a biomaterial.	Example Guidance: Provide the name of the DNA or RNA sequencing technology used in your study. If unsure refer to the protocol documentation, or provide a null value.	whole genome sequencing assay [OBI:0002117]		10.0.0	10.0.0	10.0.0
library_preparation_kit	GENEPIO:0001450	The name of the DNA library 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
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
genomic target enrichment method	GENEPIO:0100966	The molecular technique used to selectively capture and amplify specific regions of interest from a genome.	Provide the name of the enrichment method	Hybrid selection method (bait-capture) [GENEPIO:0001950]		11.1.1	11.1.1	11.1.1

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jenomic 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 balt-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
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
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
	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"	R.9.4.1				
equencing flow cell version			in the version number.		GENEPIO:0101084	11.1.1	11.1.1	11.1.1
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 0		3.0.0	3.0.0	3.0.0
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
2_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
ast5_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
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
	GENEPIO:0001457							
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 GitHub 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.	ncov-tools		11.1.1	11.1.1	11.1.1
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.	1.2.3		11.1.1	11.1.1	11.1.1
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 OC Tag GitHub issuetracker using the New Term Request form.	sequence failed quality control		11.1.1	11.1.1	11.1.1
uality control determination	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
quality control details	GENEPIO:0100561	The details surrounding a low quality determination in a quality control assessment.	Provide notes or details regarding QC results using free text.	CT value of 39. Low viral load. Low DNA concentration after amplification.		11.1.1	11.1.1	11.1.1
raw sequence data processing method	GENEPIO:0001458	The method used for raw data processing such as removing barcodes, adapter trimming, filtering etc.	Raw data processing can have a significant impact on data quality and how it can be used. Provide the names and version numbers of software used for trimming adaptors, quality filtering, etc (e.g. Trimmomatic v. 0.38, Porechop v. 0.2.3), or a link to a GitHub protocol.	Porechop 0.2.3		11.1.1	11.1.1	11.1.1

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dehosting method	GENEPIO:0001459	The method used to remove host reads from the pathogen sequence.	Provide the name and version number of the software used to remove host reads.	Nanostripper		11.1.1	11.1.1	11.1.1
	GENEPIO:0100825		Provide the name of the software used to	SPAdes Genome Assembler,		11.1.1	11.1.1	11.1.1
	GENEPIO:0100826	assemble a sequence. The version of the software used to assemble a sequence.	assemble the sequence. Provide the version of the software used to assemble the sequence.	Canu, wtdbg2, velvet		11.1.1	11.1.1	11.1.1
		The name of the software used to 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
onsensus sequence software version	GENEPIO:0001469	The version of the software used to generate the consensus sequence.	Provide the version of the software used to generate the consensus sequence.	1.3		11.1.1	11.1.1	11.1.1
readth of coverage value	GENEPIO:0001472	The percentage of the reference genome covered by the sequenced data, to a prescribed depth.	Provide value as a percent.	95		11.1.1	11.1.1	11.1.1
-		The average number of reads representing a given nucleotide						
	GENEPIO:0001474 GENEPIO:0001475	in the reconstructed sequence. The threshold used as a cut-off for the depth of severage.	Provide value as a fold of coverage.	100		11.1.1	11.1.1	11.1.1
		for the depth of coverage. The percentage of expected genes identified in the genome being sequenced. Missing genes indicate missing genomic regions (incompleteness) in the data.	Provide the threshold fold coverage. Provide the genome completeness as a	85		11.1.1	11.1.1	11.1.1
		The number of total base pairs generated by the sequencing process.	percent (no need to include units). Provide a numerical value (no need to include units).	387566		11.1.1	11.1.1	11.1.1
number of total reads	GENEPIO:0100827	The total number of non-unique reads generated by the sequencing process.	Provide a numerical value (no need to include units).	423867		11.1.1	11.1.1	11.1.1
number of unique reads	GENEPIO:0100828	The number of unique reads generated by the sequencing process.	Provide a numerical value (no need to include units).	248236		11.1.1	11.1.1	11.1.1
ninimum 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
number of contigs	GENEPIO:0100937	The number of contigs (contiguous sequences) in a sequence assembly.	Provide a numerical value.	10		11.1.1	11.1.1	11.1.1
percent Ns across total genome length		(Ns).	Provide a numerical value (no need to include units).	2		11.1.1	11.1.1	11.1.1
Ns per 100 kbp	GENEPIO:0001484	The number of ambiguous bases (Ns) normalized per 100 kilobasepairs (kbp).	Provide a numerical value (no need to include units).	342		11.1.1	11.1.1	11.1.1
N50	GENEPIO:0100938	The length of the shortest read that, together with other reads, represents at least 50% of the nucleotides in a set of sequences.	Provide the N50 value in Mb.	150		11.1.1	11.1.1	11.1.1
percent read contamination	GENEPIO:0100845	The percent of the total number of reads identified as contamination (not belonging to the target organism) in a sequence dataset.	Provide the percent contamination value (no need to include units).	2		11.1.1	11.1.1	11.1.1
		The length of the genome generated by assembling reads using a scaffold or by reference-based mapping.	Provide a numerical value (no need to include units).	34272		11.1.1	11.1.1	11.1.1
consensus genome length	GENEPIO:0001483	The length of the genome 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
eference genome accession	GENEPIO:0001485	A persistent, unique identifier of a genome database entry.	Provide the accession number of the reference genome.	NC 045512.2		11.1.1	11.1.1	11.1.1

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/Gu
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eduplication method	GENEPIO:0100831	The method used to remove duplicated reads in a sequence read dataset.	Provide the deduplication software name followed by the version, or a link to a tool or method.	DeDup 0.12.8		11.1.1	11.1.1	11.1.1
pioinformatics protocol	GENEPIO:0001489	A description of the overall bioinformatics strategy used.	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 version number of the protocol, or a GitHub link to a pipeline or workflow.	https://github.com/phac-nml/nc ov2019-artic-nf		11.1.1	11.1.1	11.1.1
normatics protocol	GENEPIO:0001469	bioiniormatics strategy used.	link to a pipeline or workllow.	<u>0V2019-artic-ni</u>		11.1.1	11.1.1	11.1.1
	GENEPIO:0101082							
ead mapping software name	GENEPIO:0100832	The name of the software used to map sequence reads to a reference genome or set of reference genes.	Provide the name of the read mapping software.	Bowtie2, BWA-MEM, TopHat		11.1.1	11.1.1	11.1.1
	GENEPIO:0100833	The version of the software used to map sequence reads to a reference genome or set of reference genes.	Provide the version number of the read mapping software.	2.5.1		11.1.1	11.1.1	11.1.1
ead mapping software version axonomic reference database name	GENEPIO:0100833	The name of the taxonomic reference database used to identify the organism.	Provide the name of the taxonomic reference database.	NCBITaxon		11.1.1	11.1.1	11.1.1
axonomic reference database version	GENEPIO:0100835	The version of the taxonomic reference database used to identify the organism.	Provide the version number of the taxonomic reference database.	1.3		11.1.1	11.1.1	11.1.1
axonomic analysis report filename	GENEPIO:0101074	The filename of the report containing the results of a taxonomic analysis.	Provide the filename of the report containing the results of the taxonomic analysis.	WWtax_report_Feb1_2024.do		11.1.1	11.1.1	11.1.1
axonomic analysis date	GENEPIO:0101075	The date a taxonomic analysis was performed.	Providing the date that an analyis was performed can help provide context for tool and reference database versions. Provide the date that the taxonomic analysis was performed in ISO 8601 format, i.e. "YYYY-MM-DD".	2024-02-01		11.1.1	11.1.1	11.1.1
read mapping criteria	GENEPIO:0100836	A description of the criteria used 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
··	GENEPIO:0100477							
sequence_submitted_by	GENEPIO:0001159	The name of the agency that submitted the sequence to a database.	The name of the agency should be written out in full, (with minor exceptions) and be consistent across multiple submissions. If submitting specimens rather than sequencing data, please put the "National Microbiology Laboratory (NML)".	Environment and Climate Change Canada (EC) [GENEPIO:0100555]		3.0.0	3.0.0	3.0.0
	GENEPIO:0100474	The name or title of the contact responsible for follow-up regarding the submission of the sequence to a repository or database.	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,	Enterior Leb Manager		3.0.0	3.0.0	3.0.0
sequence_submitted_by_contact_name		The email address of the agency responsible for submission of the		Enterics Lab Manager RespLab@lab.ca				
equence_submitted_by_contact_email	GENERIO:0100475	Sequence.	RespLab@lab.ca If the isolate is associated with a published work which can provide additional information, provide the PubMed identifier of the publication. Other types of identifiers (e.g. DOW) are also acceptable.	PMID: 33205991		3.0.0	3.0.0	3.0.0
publication_ID attribute_package	GENEPIO:0100475	The identifier for a publication. The attribute package used to structure metadata in an INSDC BioSample.	DOI) are also acceptable. If the sample is from a specific human or animal, put "Pathogen.cl". If the sample is from an environmental sample including food, feed, production facility, farm, water source, manure etc, put "Pathogen.env".	Pathogen.env		3.0.0	3.0.0	3.0.0

	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/Gui
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bioproject_accession	GENEPIO:0001136	The INSDC accession number of the BioProject(s) to which the BioSample belongs.	Required if submission is linked to a BioProject. BioProjects are an organizing tool 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 created once at the beginning of a new sequencing project. Your laboratory can have one or many BioProjects.	PRJNA12345		3.0.0	3.0.0	3.0.0
, , , , , , , , , , , , , , , , , , , ,		, ,	Store the accession returned from the	SAMN14180202				
biosample_accession (GENEPIO:0001139	The identifier assigned to a BioSample in INSDC archives.	BioSample submission. NCBI BioSamples will have the prefix SAMN, whileEMBL- EBI BioSamples will have the prefix SAMEA.			3.0.0	3.0.0	3.0.0
SRA_accession	GENEPIO:0001142	The Sequence Read Archive (SRA), European Nucleotide Archive (ENA) or DDBJ Sequence Read Archive (DRA) identifier linking raw read data, methodological metadata and quality control metrics submitted to the INSDC.	Store the accession assigned to the submitted "run". NCBI-SRA accessions start with SRR, EBI-ENA runs start with ERR and DRA accessions start with DRR.	SRR11177792		3.0.0	3.0.0	3.0.0
GenBank_accession (GENEPIO:0001145	The GenBank/ENA/DDBJ identifier assigned to the sequence in the INSDC archives.	Store the accession returned from a GenBank/ENA/DDBJ submission.	MN908947.3		3.0.0	3.0.0	3.0.0
_	GENEPIO:0100478	sequence in the integer distincts.	GGIDAINQLIA QBBBC GABINIGGION.			0.0.0	0.0.0	0.0.0
prevalence_metrics	GENEPIO:0100480	Metrics regarding the prevalence of the pathogen of interest obtained from a surveillance project.	Risk assessment requires detailed information regarding the quantities of a pathogen in a specified location, commodity, or environment. As such, it is useful for risk assessors to know what types of information are available through documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism", "Average count of indicator organism". You do not need to provide the actual values, just indicate that the information is available.	collected, Number of positive samples		3.0.0	3.0.0	3.0.0
prevalence_metrics_details (GENEPIO:0100481	The details pertaining to the prevalence metrics from a surveillance project.	If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars.		3.0.0	3.0.0	3.0.0
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
	GENEPIO:0100483	The category of the experimental intervention applied in the food production system.	In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.	Vaccination [NCIT:C15346]		3.0.0	3.0.0	3.0.0
experiment_intervention_details	GENEPIO:0100484	The details of the experimental intervention applied in the food production system.	If an experimental intervention was applied in the survey, provide details in this field as free text.	2% cranberry solution mixed in feed		3.0.0	3.0.0	3.0.0
	GENEPIO:0100479							
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
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
	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

Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/Gu
Colour Code Legend						Label	טו	dance
AMR_testing_by_contact_name	GENEPIO:0100513	The name of the individual or the individual's role in the organization that performed the antimicrobial resistance testing.	Provide the name of an individual or their job title. As personnel turnover may render the contact's name obsolete, it is more preferable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.	Enterics Lab Manager		3.0.0	3.0.0	3.0.0
AMR_testing_by_contact_email	GENEPIO:0100514	The email of the individual or the individual's role in the organization that performed the antimicrobial resistance testing.	Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more preferable to provide an address for a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.	johnnyblogs@lab.ca		3.0.0	3.0.0	3.0.0
AMR_testing_date	GENEPIO:0100515	The date the antimicrobial resistance testing was performed.	Provide the date according to the ISO 8601 standard "YYYY-MM-DD", "YYYY-MM" or "YYYY".	2022-04-03		3.0.0	3.0.0	3.0.0
antimicrobial resistance phenotype		The antimicrobial resistance phenotype, as determined by the antibiotic susceptibility measurement and testing standard for this antibiotic	Select a phenotype from the pick list provided.	Susceptible antimicrobial phenotype [ARO:3004302]		7.7.5	0.00	3.0.0
		The measured value of	This field should only contain a number (either	4				
antimicrobial_measurement		antimicrobial resistance. The units of the antimicrobial	an integer or a number with decimals). Select the units from the pick list provided. Use the Term Request System to request the	ug/mL [UO:0000274]		7.7.5		3.0.0
antimicrobial_measurement_units		resistance measurement. The qualifier associated with the antibiotic susceptibility	addition of other units if necessary. Select the comparator sign from the pick list provided. Use the Term Request System to request the addition of other signs if	greater than (>) [GENEPIO:0001006]		7.7.5		3.0.0
antimicrobial_measurement_sign antimicrobial_laboratory_typing_method		The general method used for antibiotic susceptibility testing.	necessary. 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_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 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_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_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
		The version number associated with the testing standard used for determination of resistance	If applicable, include a version number for the					
antimicrobial_testing_standard_version		phenotype The additional details associated with the testing standard used for determination of resistance phenotype	testing standard used. This information may include the year or location where the testing standard was published. If not applicable, leave blank.	M100 27th ed. Wayne, PA: Clinical and Laboratory Standards Institute; 2017.		7.7.5		3.0.0
Intimicrobial_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_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

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Colour Code Legend							Label	ID	Description/Gui dance
		for a sample to be considered	This field should only contain a number (either an integer or a number with decimals), since	\$	32				
antimicrobial resistant breakpoint		"resistant" to this antibiotic	the ">=" qualifier is implied.				7.7.5		3.0.0