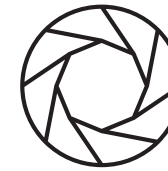# Lab Results Data

Many lab systems use a proprietary lab encoding scheme but more and more are supporting LOINC® codes or at least provide a mapping to LOINC® codes. If LOINC® codes are not available, TriNetX can map customer lab codes to LOINC®.

Please complete the TriNetX Labs Code System Collection instrument (CSC) based on the specification below.

Please note that Source ID, Code, Code System, Description, and Units of Measure are required fields. They alone, however, are not enough for productive mapping exercise. Please consider fields noted as "Preferred" and attempt to [provide as many of these as possible. Of particular importance are units, min/max/average text values, and observation count - gives us an idea of frequency of use and will guide our mapping efforts.

Data Element	Description	Data Type	Sample Data	Optionality (R/O/P)[1]	Comment
Source ID	Data source identifier	Text		R	Identifies the source system from which this row of data originates.
Code	Local code for test.	Text	2885-2	R	See *TriNetX Standard Code Systems Table* for data standards.
Code System	Name of Code System used for tests	Text	LOINC®	R	See *TriNetX Standard Code Systems Table* for data standards.
Description	Test description	Text	Protein [Mass/volume] in Serum or Plasma	R	Textual description of lab test represented by code

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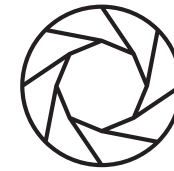[1] R=Required field, O = Optional field, P = Preferred field

Data Element	Description	Data Type	Sample Data	Optionality (R/O/P)[1]	Comment
Units of measure	Units of measure for value of test result	Text	mg/dL	R	It is expected that all labs with the same LOINC® code are using the same units of measure.
Lab Section	E.g., chemistry, hematology	Text		P	
LOINC Code[2]	Previously mapped LOINC Value	Text		P	If Available
Patient Count	Number of distinct patients in i2b2 with this type of lab results	Text		P	
Observation Count	Number of Obers	Text		R	
Normal Range			Format: ##-##	P	

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[2] Please note that it is possible for more than one LOINC code, CPT code, and/or local code to be associated with one Code.

Data Element	Description	Data Type	Sample Data	Optionality (R/O/P)[1]	Comment
Battery Code	Battery or panel refers to a group of tests that are typically ordered together			P	
Battery Description					
Battery Code System					
Related Code	E.g., CPT codes			O	
Related Code System				O	
Related Code Description		Text		O	
Earliest Observation timestamp		Date		O	

Data Element	Description	Data Type	Sample Data	Optionality (R/O/P)[1]	Comment
Most Recent Observation timestamp		Date		O	
Minimum Value		Text		P	
Maximum Value		Text		P	
Average Value		Text		P	
Comments		Text		O	