

Health & Care Information Model:

nl.zorg.LaboratoryTestResult-v7.1

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Content

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|---|----------|
| 1. nl.zorg.LaboratoryTestResult-v7.1 | 3 |
| 1.1 Revision History..... | 3 |
| 1.2 Concept | 4 |
| 1.3 Mindmap | 4 |
| 1.4 Purpose..... | 4 |
| 1.5 Patient Population | 4 |
| 1.6 Evidence Base | 4 |
| 1.7 Information Model | 5 |
| 1.7.1 LaboratoryTest..... | 8 |
| 1.7.2 Specimen | 13 |
| 1.8 Example Instances..... | 18 |
| 1.9 Instructions..... | 18 |
| 1.10 Interpretation | 18 |
| 1.11 Care Process | 18 |
| 1.12 Example of the Instrument | 18 |
| 1.13 Constraints..... | 18 |
| 1.14 Issues | 18 |
| 1.15 References | 18 |
| 1.16 Functional Model | 18 |
| 1.17 Traceability to other Standards..... | 18 |
| 1.18 Disclaimer | 19 |
| 1.19 Terms of Use | 19 |
| 1.20 Copyrights | 19 |

1. nl.zorg.LaboratoryTestResult-v7.1

| | |
|---------------------------------|--|
| DCM::CoderList | Kerngroep Registratie aan de Bron |
| DCM::ContactInformation.Address | * |
| DCM::ContactInformation.Name | * |
| DCM::ContactInformation.Telecom | * |
| DCM::ContentAuthorList | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::CreationDate | 7-6-2012 |
| DCM::DeprecatedDate | |
| DCM::DescriptionLanguage | nl |
| DCM::EndorsingAuthority.Address | |
| DCM::EndorsingAuthority.Name | PM |
| DCM::EndorsingAuthority.Telecom | |
| DCM::Id | 2.16.840.1.113883.2.4.3.11.60.40.3.13.1 |
| DCM::KeywordList | laboratorium uitslag, lab, laboratorium bepaling |
| DCM::LifecycleStatus | Final |
| DCM::ModelerList | Kerngroep Registratie aan de Bron |
| DCM::Name | nl.zorg.LaboratoriumUitslag |
| DCM::PublicationDate | 23-04-2025 |
| DCM::PublicationStatus | Published |
| DCM::ReviewerList | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate | 10-04-2025 |
| DCM::Supersedes | nl.zorg.LaboratoriumUitslag-v7.0 |
| DCM::Version | 7.1 |
| HCIM::PublicationLanguage | EN |

1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

Publicatieversie 1.1 (01-07-2013)

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-238, ZIB-239, ZIB-240, ZIB-241, ZIB-242, ZIB-243, ZIB-244, ZIB-245, ZIB-246, ZIB-353, ZIB-361, ZIB-367, ZIB-370.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 1.2.1 (22-05-2015)

Bevat: ZIB-392.

Publicatieversie 1.2.2 (16-07-2015)

Bevat: ZIB-420.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-423, ZIB-453.

Publicatieversie 4.0 (04-09-2017)

Bevat: ZIB-479, ZIB-549, ZIB-564, ZIB-576, ZIB-481, ZIB-577.

Publicatieversie 4.1 (31-12-2017)

Bevat: ZIB-609, ZIB-611, ZIB-621, ZIB-645, ZIB-646.

Publicatieversie 4.2 (01-10-2018)

Bevat: ZIB-649, ZIB-676.

Publicatieversie 4.3 (26-02-2019)

Bevat: ZIB-639, ZIB-703.

Publicatieversie 4.4 (06-07-2019)

Bevat: ZIB-669, ZIB-880.

Publicatieversie 4.5 (31-01-2020)

Bevat: ZIB-910, ZIB-901, ZIB-902.

Publicatieversie 4.6 (01-09-2020)

Bevat: ZIB-1016, ZIB-1148.

Publicatieversie 5.0 (01-12-2021)

Bevat: ZIB-1072, ZIB-1269, ZIB-1293, ZIB-1465, ZIB-1551, ZIB-1553.

Publicatieversie 5.1 (10-06-2022)

Bevat: ZIB-1292, ZIB-1552, ZIB-1686, ZIB-1698, ZIB-1699.

Publicatieversie 6.0 (15-10-2023)

Bevat: ZIB-1584, ZIB-1697, ZIB-1784, ZIB-1845, ZIB-1958, ZIB-1990, ZIB-1974, ZIB-2019.

Publicatieversie 7.0 (15-04-2024)

Bevat: ZIB-2239.

Publicatieversie 7.1 (23-04-2025)

Bevat: ZIB-2461, ZIB-2700.

1.2 Concept

A laboratory result describes the result of a laboratory analysis.

These are specimen-oriented tests as performed in laboratories such as Clinical Chemistry, Serology, Microbiology, etc.

In addition to the results of tests with a singular result, this concept can also contain the results of more complex tests with multiple results or a 'panel'.

1.3 Mindmap

1.4 Purpose

Laboratory tests are done for the purpose of diagnosing and preventing disease and follow-up on the effects of treatment.

1.5 Patient Population

1.6 Evidence Base

There are two information models for recording laboratory test results: TextResult and LaboratoryTestResult.

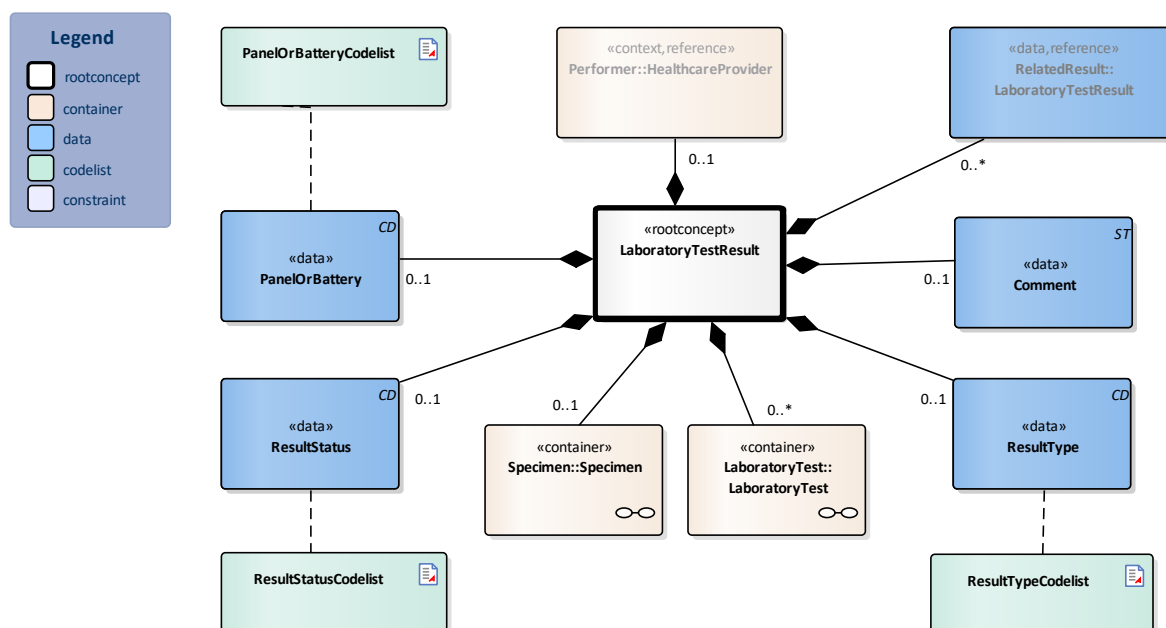
In the case of laboratory test results, it is difficult to clearly indicate exactly when to use this information model and when to use the TextResult information model.

In general, laboratory tests resulting in a value (7.1 mmol/L), ordinal number (++ from series to +++) or a quantitative result (Low) are recorded using this information model. The TextResult information model is

better suited for textual results that are more descriptive in nature and which are longer than just a few words. Both types of tests occur in almost all laboratories.

The applicability of the aforementioned information models is not determined by the kind of lab but by the kind of result.

1.7 Information Model



| «rootconcept» | LaboratoryTestResult | |
|----------------|---|--|
| Definitie | Root concept of the LaboratoryTestResult information model. This root concept contains all data elements of the LaboratoryTestResult information model. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.1 | |
| Opties | | |

| «data» | PanelOrBattery | |
|-------------------|---|---|
| Definitie | For laboratory tests comprising multiple subtests and often requested together as a whole, this concept contains the name of the compound request (often indicated as a 'panel', 'battery' or 'cluster'). Examples include: blood gases and EBV serology. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.4 | |
| DCM::ExampleValue | Bloedgassen | |
| DCM::ValueSet | PanelOrBatteryCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.5 |
| Opties | | |

| «data» | ResultStatus | |
|----------------|--|--|
| Definitie | The status of the laboratory test result. If the laboratory test is a panel/cluster, this status reflects the status of the whole panel/cluster. If the status item per subtest is used too, this status must be in accordance with these status values. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.6 | |

| | | |
|---------------------|--|---|
| DCM::DefinitionCode | LOINC: 92235-1 Lab order result status | |
| DCM::ExampleValue | Definitief | |
| DCM::ValueSet | ResultStatusCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.8 |
| Opties | | |

| «data» | Comment | |
|---------------------|--|--|
| Definitie | Comments, such as a textual interpretation or advice accompanying the result, for example. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.5 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |
| Opties | | |

| «data» | ResultType | |
|-------------------|--|---|
| Definitie | The type of result defines the laboratory specialty under which the test is categorized. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.7 | |
| DCM::ExampleValue | Klinische Chemie | |
| DCM::ValueSet | ResultTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.1 |
| Opties | | |

| «data» | RelatedResult::LaboratoryTestResult | |
|--------------------------|--|---|
| Definitie | Reference to related tests, <i>e.g.</i> paired tests or sequential tests like gram staining and microbiological cultures. It concerns previous results that collectively lead to the current interpretation. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.33 | |
| DCM::ReferencedConceptId | NL-CM:13.1.1 | This is a reference to the rootconcept of information model LaboratoryTestResult. |
| Opties | | |

| «context» | Performer::HealthcareProvider | |
|--------------------------|--|---|
| Definitie | The healthcare provider who is responsible for the execution of the laboratory examination and delivering the Laboratory result. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.35 | |
| DCM::ReferencedConceptId | NL-CM:17.2.1 | This is a reference to the rootconcept of information model HealthcareProvider. |
| Opties | | |

| «document» | PanelOrBatteryCodelist | |
|-------------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.5 | |
| DCM::ValueSetIncludeOTH | True | |
| DCM::ValueSetStatus | Active | |

| | | |
|---------------------------|-------------------|---|
| HCIM::ValueSetLanguage | -- | |
| Opties | | |
| OnderzoekCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.5 |
| Codes | Coding Syst. Name | Coding System OID |
| Alle waarden | LOINC | 2.16.840.1.113883.6.1 |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

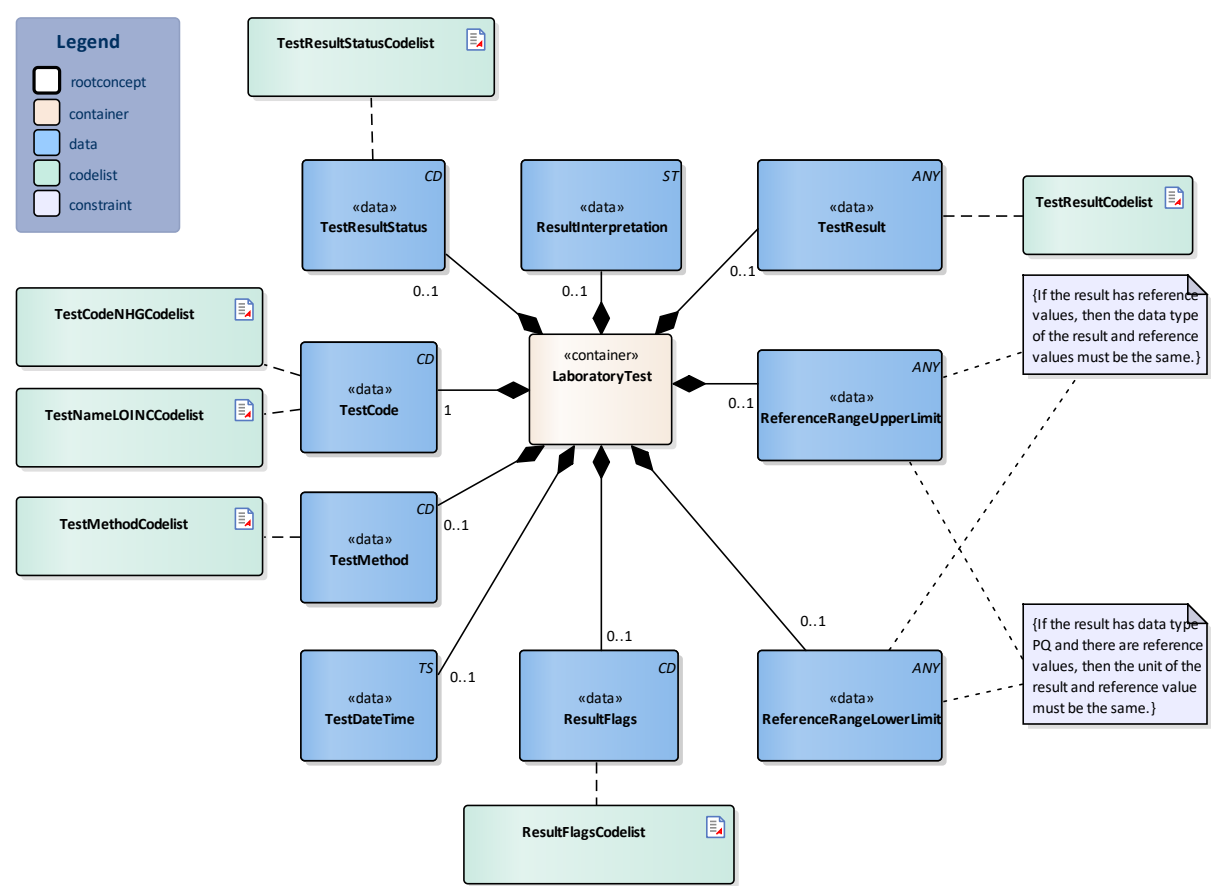
| «document» | | ResultStatusCodelist | | |
|---------------------------------|---|---|---|---------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.8 | | | |
| DCM::ValueSetIncludeOTH | True | | | |
| DCM::ValueSetStatus | Active | | | |
| HCIM::ValueSetLanguage | EN | | | |
| Opties | | | | |
| ResultaatStatusCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.8 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Pending | pending | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Uitslag volgt |
| Preliminary | preliminary | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Voorlopig |
| Final | final | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Definitief |
| Appended | appended | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Aanvullend |
| Corrected | corrected | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Gecorrigeerd |

| «document» | | ResultTypeCodelist | | |
|-------------------------------|---|---|------------------------|------------------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.1 | | | |
| DCM::ValueSetIncludeOTH | True | | | |
| DCM::ValueSetStatus | Active | | | |
| HCIM::ValueSetLanguage | -- | | | |
| Opties | | | | |
| ResultaatTypeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.1 | | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Omschrijving |
| Hematology | 252275004 | SNOMED CT | 2.16.840.1.113883.6.96 | Hematologie |
| Chemistry | 275711006 | SNOMED CT | 2.16.840.1.113883.6.96 | Klinische chemie |
| Serology | 68793005 | SNOMED CT | 2.16.840.1.113883.6.96 | Serologie/ immunologie |

| | | | | |
|--------------------|-----------|-----------|------------------------|----------------------|
| Virology | 395124008 | SNOMED CT | 2.16.840.1.113883.6.96 | Virologie |
| Toxicology | 314076009 | SNOMED CT | 2.16.840.1.113883.6.96 | Toxicologie |
| Microbiology | 19851009 | SNOMED CT | 2.16.840.1.113883.6.96 | Microbiologie |
| Molecular genetics | 405825005 | SNOMED CT | 2.16.840.1.113883.6.96 | Moleculaire genetica |

| | Legend |
|-----------|--------|
| Definitie | |
| Datatype | |
| | |
| Opties | |

1.7.1 LaboratoryTest



| «container» | LaboratoryTest | |
|----------------|---|--|
| Definitie | Container of the LaboratoryTest concept. This container contains all data elements of the LaboratoryTest concept. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.3 | |
| Opties | | |

| «data» | TestCode | |
|-------------------|---|--|
| Definitie | The name and code of the executed test. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.8 | |
| DCM::ExampleValue | HbA1c (glycohemoglobine) IFCC | |

| | | |
|---------------|-----------------------|--|
| DCM::ValueSet | TestCodeNHGCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.16 |
| DCM::ValueSet | TestNameLOINCCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.3 |
| Opties | | |

| «data» | TestMethod | |
|---------------------|---|---|
| Definitie | The test method used to obtain the result. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.9 | |
| DCM::DefinitionCode | SNOMED CT: 246501002 Technique (attribute) | |
| DCM::ExampleValue | IFCC | |
| DCM::ValueSet | TestMethodCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.4 |
| Opties | | |

| «data» | TestDateTime | |
|-------------------|--|--|
| Definitie | The date and if possible the time at which the test was carried out. | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:13.1.13 | |
| DCM::ExampleValue | 10-07-2012 20:15 | |
| Opties | | |

| «data» | TestResult | |
|-------------------|---|--|
| Definitie | The test result. Depending on the type of test, the result will consist of a value with a unit or a coded value (ordinal or nominal). | |
| Datatype | ANY | |
| DCM::ConceptId | NL-CM:13.1.10 | |
| DCM::ExampleValue | 53 mmol/mol | |
| DCM::ValueSet | TestResultCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.17 |
| Opties | | |

| «data» | TestResultStatus | |
|---------------------|--|--|
| Definitie | The status of the test result of this test. If the laboratory test is a panel/cluster, the overall status is given in the status of the panel/cluster. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.31 | |
| DCM::DefinitionCode | LOINC: 92236-9 Lab observation result status | |
| DCM::ValueSet | TestResultStatusCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.15 |
| Opties | | |

| «data» | ReferenceRangeUpperLimit | |
|-------------------|--|--|
| Definitie | The upper reference limit for the patient of the value measured in the test. | |
| Datatype | ANY | |
| DCM::ConceptId | NL-CM:13.1.11 | |
| DCM::ExampleValue | 42 mmol/mol | |
| Opties | | |

| «data» | ReferenceRangeLowerLimit | |
|-----------|--|--|
| Definitie | The lower reference limit for the patient of the value measured with the test. | |

| | | |
|--------------------------|---------------|--|
| Datatype | ANY | |
| DCM::ConceptId | NL-CM:13.1.12 | |
| DCM::ExampleValue | 20 mmol/mol | |
| Opties | | |

| «data» | ResultFlags | |
|----------------------------|---|---|
| Definitie | Attention codes indicating whether the result of a quantitative test is above or below certain reference values or interpreting the result otherwise.(Resistent). The values Resistant, Intermediate en Susceptible are used with microbiological test results. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.14 | |
| DCM::DefinitionCode | SNOMED CT: 363713009 Has interpretation | |
| DCM::ExampleValue | High | |
| DCM::ValueSet | ResultFlagsCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.7 |
| Opties | | |

| «data» | ResultInterpretation | |
|----------------------------|--|--|
| Definitie | Comment of the laboratory specialist regarding the interpretation of the results | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.32 | |
| DCM::DefinitionCode | SNOMED CT: 441742003 Evaluation finding | |
| Opties | | |

| «document» | TestCodeNHGCodelist | |
|---------------------------------|---|-------------------------------|
| Definitie | These are the values of which the field "Soort" contains the letter "L" | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.16 | |
| DCM::ValueSetInclude OTH | True | |
| DCM::ValueSetStatus | Active | |
| HCIM::ValueSetLanguage | -- | |
| Opties | | |
| TestCodeNHGCodelijst | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.16 | |
| Codes | Coding Syst. Name | Coding System OID |
| Alle labbepaling waarden | NHG tabel 45 | 2.16.840.1.113883.2.4.4.30.45 |

| «document» | TestResultCodelist | |
|---------------------------------|--|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.17 | |
| DCM::ValueSetInclude OTH | True | |
| DCM::ValueSetStatus | Active | |

| | | | |
|---|-------------------|---|--|
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| TestUitslagCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.17 | |
| Codes | Coding Syst. Name | Coding System OID | |
| Refset: SNOMED CT: ^2581000146104 simpele referentieset voor micro-organismen (metadata) | SNOMED CT | 2.16.840.1.113883.6.96 | |
| Refset: SNOMED CT: ^46231000146109 simpele referentieset met ordinale uitslagen (metadata) | SNOMED CT | 2.16.840.1.113883.6.96 | |
| Refset: SNOMED CT: ^97801000146108 simpele referentieset met ordinale uitslagen van microscopische bepalingen (metadata) | SNOMED CT | 2.16.840.1.113883.6.96 | |
| Refset: SNOMED CT: ^140301000146101 simpele referentieset met ordinale uitslagen van bepalingen van antibioticagevoeligheid (metadata) | SNOMED CT | 2.16.840.1.113883.6.96 | |
| Refset: SNOMED CT: ^145871000146106 simpele referentieset met typen mengflora (metadata) | SNOMED CT | 2.16.840.1.113883.6.96 | |

| | | | |
|-------------------------|---|--|--|
| «document» | TestNameLOINCCodelist | | |
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Required | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.3 | | |
| DCM::ValueSetIncludeOTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| TestCodeLOINCCodelist | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.3 | |
| Codes | Coding Syst. Name | Coding System OID | |
| Alle waarden | Nederlandse Labcodeset | 2.16.840.1.113883.2.4.3.11.51.1 | |

| | | | |
|---|---|--|--|
| «document» | TestMethodCodelist | | |
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Extensible | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.4 | | |
| DCM::ValueSetIncludeOTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| TestmethodeCodelist | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.4 | |
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: < 272394005 Technique (qualifier value) [DEPRECATED] | SNOMED CT | 2.16.840.1.113883.6.96 | |
| SNOMED CT: ^260131000146101 Dutch laboratory test method | SNOMED CT | 2.16.840.1.113883.6.96 | |

| | | |
|----------------------|--|--|
| simple reference set | | |
|----------------------|--|--|

| «document» | TestResultStatusCodelist | | | |
|-----------------------------|--|---|---|---------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.15 | | | |
| DCM::ValueSetInclude OTH | True | | | |
| DCM::ValueSetStatus | Active | | | |
| HCIM::ValueSetLanguage | EN | | | |
| Opties | | | | |
| TestUitslagStatusCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.15 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Pending | pending | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Uitslag volgt |
| Preliminary | preliminary | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Voorlopig |
| Final | final | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Definitief |
| Appended | appended | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Aanvullend |
| Corrected | corrected | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Gecorrigeerd |

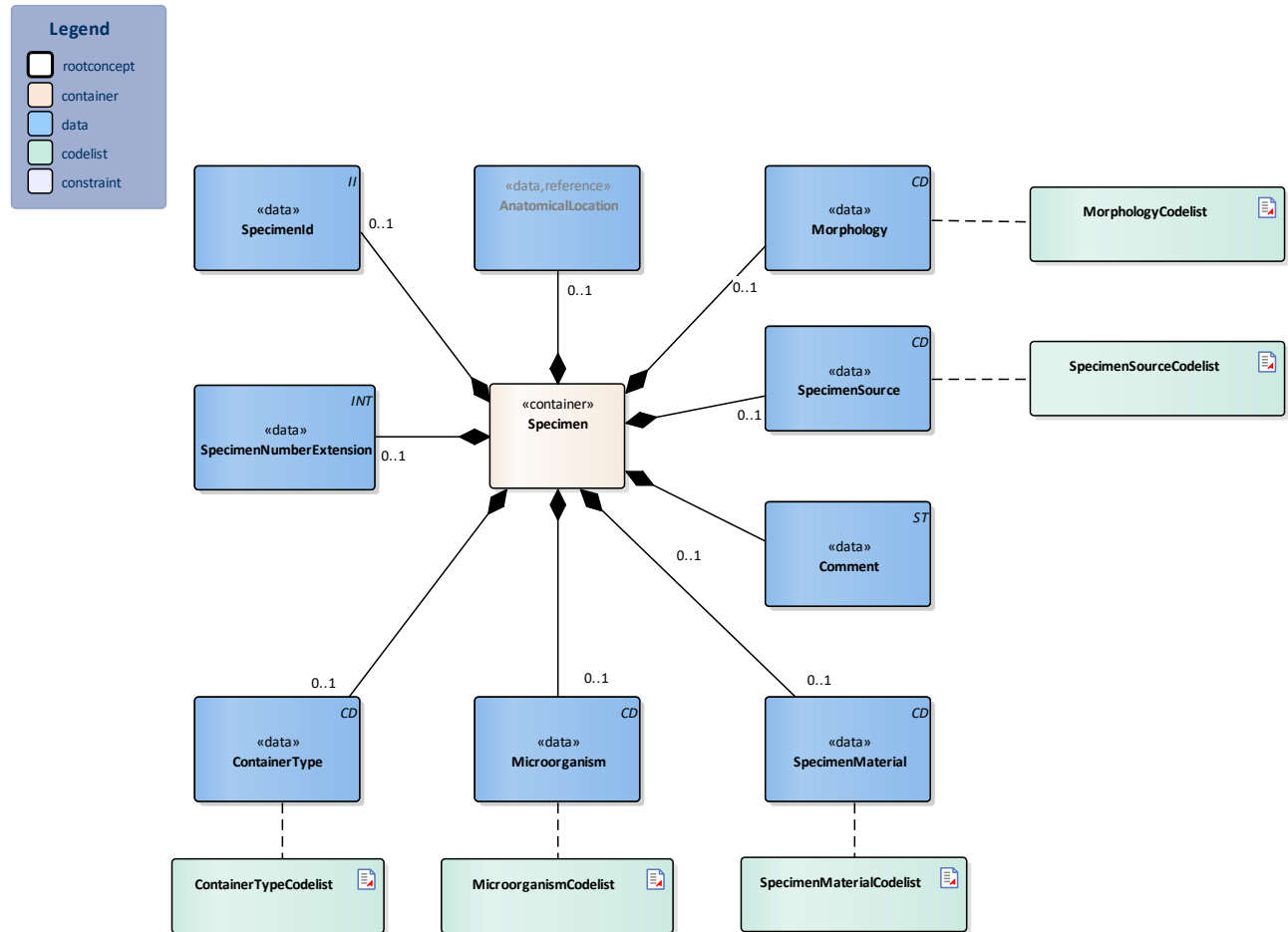
| «document» | | ResultFlagsCodelist | | |
|-------------------------------|--------------|---|--|------------------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | | Extensible | | |
| DCM::ValueSetId | | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.7 | | |
| DCM::ValueSetInclude OTH | | True | | |
| DCM::ValueSetStatus | | Active | | |
| HCIM::ValueSetLanguage | | -- | | |
| Opties | | | | |
| InterpretatieVlaggenCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.7 | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Description |
| Above reference range | 281302008 | SNOMED CT | 2.16.840.1.113883.6.96 | Boven referentiewaarde |
| Below reference range | 281300000 | SNOMED CT | 2.16.840.1.113883.6.96 | Onder referentiewaarde |
| Intermediate | 11896004 | SNOMED CT | 2.16.840.1.113883.6.96 | Intermediair |
| Resistant | 30714006 | SNOMED CT | 2.16.840.1.113883.6.96 | Resistent |
| Susceptible | 131196009 | SNOMED CT | 2.16.840.1.113883.6.96 | Sensitief |

| | Legend |
|-----------|--------|
| Definitie | |
| Datatype | |
| | |
| Opties | |

| | Constraint |
|-----------|--|
| Definitie | If the result has data type PQ and there are reference values, then the unit of the result and reference value must be the same. |
| Datatype | |
| | |
| Opties | |

| | Constraint |
|-----------|---|
| Definitie | If the result has reference values, then the data type of the result and reference values must be the same. |
| Datatype | |
| | |
| Opties | |

1.7.2 Specimen



| «container» | Specimen |
|-------------|---|
| Definitie | Container of the concept Specimen. This container contains all data elements of the concept Specimen. A completed container is related to a |

| | | |
|----------------------------|--|--|
| | sample from the Snomed Hierarchy. | |
| | If the TestCode implicitly also describes a specimen (often the case if coded in LOINC), elements within the concept specimen may not conflict with it. However, if desired, these data can provide a more detailed description. This is in line with the agreements made in the IHE/Nictiz e-Lab programme. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.2 | |
| DCM::DefinitionCode | SNOMED CT: 123038009 monster | |
| Opties | | |

| | | |
|-----------------------|---|--|
| «data» | SpecimenId | |
| Definitie | Identification number of the material obtained, as a reference for inquiries to the source organization. In a transmural setting, this number will consist of a specimen number including the identification of the issuing organization, to be unique outside of the borders of an organization. | |
| Datatype | II | |
| DCM::ConceptId | NL-CM:13.1.15 | |
| Opties | | |

| | | |
|-----------------------|--|--|
| «data» | SpecimenNumberExtension | |
| Definitie | The specimen number extension is used when the collected material is distributed from the original tube or container across multiple tubes. In combination with the specimen Id the extension yield a unique identification of the tube or container | |
| Datatype | INT | |
| DCM::ConceptId | NL-CM:13.1.20 | |
| Opties | | |

| | | |
|----------------------------|---|---|
| «data» | ContainerType | |
| Definitie | Container type describes the envelope in which the material is collected or sent. Examples include blood tubes, transport container, possibly including culture medium. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.21 | |
| DCM::DefinitionCode | SNOMED CT: 706046003 Specimen receptacle | |
| DCM::ValueSet | ContainerTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.9 |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | SpecimenMaterial | |
| Definitie | Specimen material describes the base material or specimen type taken. For example: Urine, blood, Saliva etc or aspirate from jejunum, biopsy of cartilage etc.. This element refers to the Substance or Specimen hierarchy in Snomed. If the Specimen branch is used for this data element, it must not contradict other elements in this zib. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.16 | |
| DCM::DefinitionCode | SNOMED CT: 370133003 Specimen substance | |
| DCM::ExampleValue | Urine | |

| | | |
|---------------|--------------------------|---|
| DCM::ValueSet | SpecimenMaterialCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.6 |
| Opties | | |

| «data» | AnatomicalLocation | |
|--------------------------|---|---|
| Definitie | Anatomical location where the material is collected, <i>e.g.</i> elbow. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.36 | |
| DCM::DefinitionCode | SNOMED CT: 405814001 Procedure site - Indirect | |
| DCM::ReferencedConceptId | NL-CM:20.7.1 | This is a reference to the rootconcept of information model AnatomicalLocation. |
| Opties | | |

| «data» | Microorganism | |
|----------------|---|--|
| Definitie | In particular in microbiological determinations the subject of the test is an isolate of a certain microorganism rather than a material. This concept provides the ability to capture information about this microorganism. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.22 | |
| DCM::ValueSet | MicroorganismCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.10 |
| Opties | | |

| «data» | Morphology | |
|---------------------|--|--|
| Definitie | Morphology describes morphological abnormalities of the anatomical location where the material is taken, for example wound, ulcer. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.28 | |
| DCM::DefinitionCode | SNOMED CT: 118168003 Specimen source morphology | |
| DCM::ValueSet | MorphologyCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.13 |
| Opties | | |

| «data» | SpecimenSource | |
|---------------------|--|--|
| Definitie | If the material is not collected directly from the patient but comes from a patient-related object, <i>e.g.</i> a cathetertip, this source of material can be recorded here. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.29 | |
| DCM::DefinitionCode | SNOMED CT: 898201001 Device specimen | |
| DCM::ValueSet | SpecimenSourceCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.18 |
| Opties | | |

| «data» | Comment | |
|---------------------|--|--|
| Definitie | Comments on the specimen , such as drawing material after a (glucose) stimulus or taking medicine. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.19 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |

| | | |
|-------------------|----------------------|--|
| DCM::ExampleValue | Na (glucose)stimulus | |
| Opties | | |

| «document» | SpecimenSourceCodelist | | |
|---|--|---|--|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Required | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.18 | | |
| DCM::ValueSetInclude OTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| BronMonsterCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.18 | |
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: << 125676002 Person (person) OR << 260787004 Physical object (physical object) OR << 276339004 Environment (environment) | SNOMED CT | 2.16.840.1.113883.6.96 | |

| «document» | SpecimenMaterialCodelist | | |
|---|---|--|--|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Required | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.6 | | |
| DCM::ValueSetInclude OTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| MonstermateriaalCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.6 | |
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: < 105590001 substantie | SNOMED CT | 2.16.840.1.113883.6.96 | |
| SNOMED CT: <123038009 monster (monster) | SNOMED CT | 2.16.840.1.113883.6.96 | |

| «document» | ContainerTypeCodelist | | |
|--------------------------|---|--|--|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Required | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.9 | | |
| DCM::ValueSetInclude OTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| ContainerTypeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.9 | |

| Codes | Coding Syst. Name | Coding System OID |
|---|-------------------|------------------------|
| SNOMED CT: < 434711009 Specimen container (physical object) | SNOMED CT | 2.16.840.1.113883.6.96 |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | | MicroorganismCodelist | |
|---|--|---|------------------------|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Required | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.10 | | |
| DCM::ValueSetInclude OTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| MicroorganismeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.10 | |
| Codes | | Coding Syst. Name | Coding System OID |
| SNOMED CT: ^2581000146104 simpele referentieset voor micro-organismen (foundation metadata concept) | | SNOMED CT | 2.16.840.1.113883.6.96 |

| «document» | | MorphologyCodelist | |
|--|--|--|--|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Required | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.13.1.13 | | |
| DCM::ValueSetInclude OTH | True | | |
| DCM::ValueSetStatus | Active | | |
| HCIM::ValueSetLanguage | -- | | |
| Opties | | | |
| MorfologieCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.13 | |
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: < 49755003 Morphologically abnormal structure | SNOMED CT | 2.16.840.1.113883.6.96 | |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| Legend | |
|-----------|--|
| Definitie | |
| Datatype | |
| Opties | |

1.8 Example Instances

| LaboratoriumUitslag | | | | | | | | | |
|---------------------|------------------|-------------------|------------------|------------------|------------------|-------------|-----------------------|-----------------------|-----------------------|
| Resultaat Type | Resultaat Status | Monster | | LaboratoriumTest | | | | | |
| | | Monster materiaal | Afame DatumTijd | TestCode | Test DatumTijd | TestUitslag | Referentie Ondergrens | Referentie Bovengrens | Interpretatie Vlaggen |
| Klinische chemie | Definitief | Bloed | 12-06-2012 09:00 | Natrium | 12-06-2012 13:15 | 138 mmol/l | 136 mmol/l | 146 mmol/l | |

| LaboratoriumUitslag | | | | | | | | | |
|---------------------|------------------|-------------------|------------------|------------------|------------------|-------------|-----------------------|-----------------------|-------------------------|
| Resultaat Type | Resultaat Status | Monster | | LaboratoriumTest | | | | | |
| | | Monster materiaal | Afame DatumTijd | TestCode | Test DatumTijd | TestUitslag | Referentie Ondergrens | Referentie Bovengrens | Interpretatie Vlaggen |
| Klinische chemie | Definitief | Bloed | 23-05-2012 08:08 | Chloride | 23-05-2012 12:00 | 109 mmol/l | 99 mmol/l | 108 mmol/l | Boven referentie-waarde |

| LaboratoriumUitslag | | | | | | | | | |
|---------------------|------------------|-------------------|------------------|------------------|------------------|-------------|-----------------------|-----------------------|-----------------------|
| Resultaat Type | Resultaat Status | Monster | | LaboratoriumTest | | | | | |
| | | Monster materiaal | Afame DatumTijd | TestCode | Test DatumTijd | TestUitslag | Referentie Ondergrens | Referentie Bovengrens | Interpretatie Vlaggen |
| Virologie | Definitief | Bloed | 16-01-2012 08:00 | Hepatitis A IgM | 16-01-2012 10:12 | Negatief | | | |

1.9 Instructions

1.10 Interpretation

1.11 Care Process

1.12 Example of the Instrument

1.13 Constraints

1.14 Issues

1.15 References

1. Nederlandse Vereniging voor Medische Microbiologie (2010) *ELab en EvT*. [Online] Beschikbaar op: http://www.nvmm.nl/ict/vereniging/werkgroepen_commissies/elab-en-evt [Geraadpleegd: 23 juli 2014].
- 2.X-eHealth: Laboratory Requests and Reports guideline and functional specifications [online] Beschikbaar op: <https://www.x-ehealth.eu/documentation/> [Geraadpleegd: 10 april 2026].

1.16 Functional Model

1.17 Traceability to other Standards

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