

Technical specification Lab-lab messages

Message structure for HL7 2.5 OML O21 and OUL R24

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Document Information

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1 Content

1	Content	3
2	Order messages (OML O21)	5
2.1	Lay-out HL7 2.5 OML O21	5
2.2	TP-codes	5
2.3	LOINC codes	5
2.4	Example message	6
3	Result messages (OUL R24)	7
3.1	Lay-out HL7 2.5 OUL R24	7
3.2	Qualitative and quantitative results – LOINC codes	7
3.3	Example message	8
4	Segment definition	10
4.1	MSH	10
4.2	PID	11
4.3	SPM	12
4.4	ORC	13
4.5	OBR	14
4.6	TQ1	15
4.7	OBX	16
4.8	NTE	17
5	EHEALTHBOX	18

Document history

Version	Date	Author/Editor	Comments
1.0	10/08/2020	Bart Havermans	Initial document
1.1	01/10/2020	Bart Havermans	<ul style="list-style-type: none"> - Changing result message from OUL R22 to OUL R24 message - Adding EHEALTHBOX section
1.2	04/10/2020	Bart Havermans	<ul style="list-style-type: none"> - Correction in OBR segment in examples OUL R24 messages
1.3	09/10/2020	Bart Havermans	<ul style="list-style-type: none"> - Sending out TP-codes - Used LOINC codes - Receiving ct results
1.4	26/10/2020	Bart Havermans	<ul style="list-style-type: none"> - Adding SPM segment in result message - Standardization of result reporting
1.5	26/11/2020	Bart Havermans	<ul style="list-style-type: none"> - RIZIV number of issuers should be 8 long and contains no special characters - INSZ number of patient must not contain special characters

2 Order messages (OML O21)

2.1 Lay-out HL7 2.5 OML O21

MSH	Message Header
[
PID	Patient Identification
]	
{	
ORC	Common Order
[{{TQ1}}	Timing Quantity
[
OBR	Observation
[
OBX	Observation Result
]	
[
SPM	Specimen Details
[{{OBX}}	Observation/Result related to specimen
]	
]	
}	

2.2 TP-codes

The test prescription code has to be send out to the receiving lab. (source : <https://www.corona-tracking.info/algemene-info/glossarium/test-prescription-tp-code/>)

In the outgoing message this will be transmitted as an OBR – ORC – OBX sequence. The TP code will be result of the test with code TP-CODE.

```

ORC|NW|M0907607^L|||P||^20200908113600^R||20200910052450|||14776761
860^Zivago&&Zivago^Andre^^^DR.^hcsr^RIZIV|83461669998^^^EHEALT
HBOX
TQ1|||||20200908113600||R
OBR|1|M0907607^L||CORONA_TPR^Test prescription reason^L^TP-CODE^Test
prescription reason^LN
|||20200908113600|||||20200908094100|||||20200914074414|||F||^2020090811
3600^R
OBX|1|ST| CORONA_TPR^Test prescription reason^L^TP-CODE^Test prescription
reason^LN ||TP0110||N||F||20200908113600
    
```

2.3 LOINC codes

The following test code must be used

Test code	LOINC Code
-----------	------------

SARS coronavirus 2 RNA	94309-2
------------------------	---------

2.4 Example message

Initial lab A sends the Covid PCR test which is scheduled on a specimen with a specified barcode and test prescription code requested by a physician to another lab C for a patient.

Sending lab A (MSH.4): **83461669998 (EHEALTHBOX)**

Receiving lab C (MSH.6): **71067049000 (EHEALTHBOX)**

Social security number of patient (PID.3): **60120831909 (INSZ)**

Patient demographics

- LastName, FirstName (PID.5.1.1 + PID.5.2.1): Test , Bart
- Birthdate (PID.7): 08/12/1960
- Sex (PID.8): M

Reference number order initial lab (ORC.2 + OBR.2): **M0907607**

Test prescription reason: **TP0110 (TP-CODE)**

Request test Covid PCR test (OBR.4.1.4): **94309-2 (LN)**

Requesting issuer RIZIV number (ORC.12.1.1): **14776761 (RIZIV)**

Requesting lab (ORC.13.1.1): **83461669998 (EHEALTHBOX)**

Barcode sample (SPM.2.1): **ZZ00Z02342**

Material ESWAB (SPM.4.1.4): **258500001 (SCT)**

```
MSH|^~\&|Lab_A|LABLAB_ORDEREXPORT^83461669998^EHEALTHBOX|Lab_C|LABLAB_ORDEREXPORT^71067049000^EHEALTHBOX|20200910052450||OML^O21|000001519692|P|2.5|||NE|AL||8859/15
PID|1||60120831909^^^INSZ||Test&&Test^Bart^^^^L||19601208|M|||Sluisweg
2A^^Gent^^9000^BE||09/2202321^^PH^^^^^^^^09/2202321~0485554528^^CP^^^^^^^^04855
54528~^NET^Internet^Bart.Test@telenet.be|||||||Gent|N|||||N
ORC|NW|M0907607^L|||IP||^20200908113600^^R||20200910052450|||14776761^Zivago&&Zi
vago^Andre^^^DR.^hcpr^RIZIV|83461669998^^^^^^EHEALTHBOX
TQ1||||||20200908113600||R
OBR|1|M0907607^L||CORONA_TPR^Test prescription reason^L^TP-CODE^Test prescription
reason^LN
|||20200908113600||||||20200908094100||||||20200914074414|||F||^20200908113600^^R
OBX|1|ST|CORONA_TPR^Test prescription reason^L^TP-CODE^Test prescription reason^LN
||TP0110||N||F|||20200908113600
ORC|NW|M0907607^L|||IP||^20200908113600^^R||20200910052450|||14776761^Zivago&&Zi
vago^Andre^^^DR.^hcpr^RIZIV|83461669998^^^^^^EHEALTHBOX
TQ1||||||20200908113600||R
OBR|1|M0907607^L||PCRCovid^PCR Covid^L^94309-2^ PCR Covid
^LN|||20200908113600||||||20200908094100||||||20200910052450|||^^20200908113600^^R
SPM|1|ZZ00Z02342&Barcode||ESWAB^E-swab^L^258500001^E-
swab^SCT||||||0^mL&mL&L|||20200908113600|20200908113632||N
OBX|1|CE||1
```

3 Result messages (OUL R24)

3.1 Lay-out HL7 2.5 OUL R24

MSH	Message Header
[
PID	Patient Identification
]	
{	Result section - start
OBR	Observation
[ORC]	Common Order
[{{TQ1}}	Timing Quantity
{{	
SPM	Specimen Details
}}	
{{	
OBX	Observation Result
[NTE]	Notes and Comments
}}	
}	Result section - end

3.2 Qualitative and quantitative results – LOINC codes

A COVID test consists at least out of a qualitative result (E.g. positive / negative result) reported with LOINC code 94309-2. It can be accompanied by 1 or more quantitative results (ct results). Non limitative list of LOINC codes that can be used (source : <https://loinc.org/sars-cov-2-and-covid-19/>) :

Test	LOINC Code
SARS coronavirus 2 RNA	94309-2
N gen ct value	94510-5
N1 gen ct value	94311-8
N2 gen ct value	94312-6
RdRp gen ct value	94645-9
ORF1ab ct value	94511-3
S gen ct value	94643-4
E gen ct value	94509-7
Unspecified target ct value	94746-5

The result value of the qualitative test in the result message must be standardized. The only valid values are (source: <https://www.dropbox.com/s/gne7znuqtn4vn13/CVTestResultCodelist.xlsx?dl=0>)

Conceptcode	Description EN	D1 Description NL	Description FR
260373001	Detected	Gedetecteerd	Déecté
419984006	Inconclusive	Niet conclusief	Pas concluant
260415000	Not detected	Niet gedetecteerd	Non-déecté
125154007	Specimen unsatisfactory for	Specimen niet geschikt voor analy	Echantillon ne convient pas à l'analyse

3.3 Example message

The executing lab C sends the qualitative and 2 quantitative results (N gen + E gen) for the Covid PCR test back to the requesting lab A.

Sending lab A (MSH.4) : **71067049000 (EHEALTHBOX)**

Receiving lab C (MSH.6) : **83461669998 (EHEALTHBOX)**

Sociale security number of patient (PID.3): **60120831909 (INSZ)**

Patient demographics

- LastName, FirstName (PID.5.1.1 + PID.5.2.1): Test , Bart
- Birthdate (PID.7) : 08/12/1960
- Sex (PID.8) : M

Reference number order initial lab (ORC.2 + OBR.2): **M0907607**

Request test Covid PCR test (OBR.4.1.4): **94309-2 (LN)**

Requesting issuer RIZIV number (ORC.12.1.1): **14776761 (RIZIV)**

Requesting lab (ORC.13.1.1): **83461669998 (EHEALTHBOX)**

Result for the PCR qualitative result (OBX.3.1.4): **94309-2 (LN)**

Result for the PCR quantitative N gen result (OBX.3.1.4): **94510-5 (LN)**

Result for the PCR quantitative S gen result (OBX.3.1.4): **94643-4 (LN)**

```
MSH|^~\&|LAB_C|LABLAB_RESULTEXPORT^71067049000^EHEALTHBOX|LAB_A|LABLAB_RESULTS^83461669998^EHEALTHBOX|20200911093554||OUL^R24|000017121970|P|2.5||N|E|AL||8859/15
PID|1||60120831909^^INSZ||Test&&Test^Bart^^^L ||19601208|M|||Sluisweg
2A^^Gent^^9000^BE||09/2202321^^PH^^^^^^09/2202321-0485554528^^CP^^^^^^04855
54528~^NET^Internet^Bart.Test@telenet.be||||||Gent|N|||||N
OBR|1|M0907607|200908-3987^L|COVID^Coronavirus (COVID-19)^L^94309-2^Coronavirus
(COVID-
19)^LN|||20200908113600|||||20200911084326|||||20200911093554|||F|^20200908113600
^^R
ORC|SC|M0907607|200908-
3987^L||CM|^20200908113600^^R||20200911093554|||14776761^Zivago&&Zivago^Andre^^
^DR.^hcsr^RIZIV|83461669998^^^^^^EHEALTHBOX
TQ1|||||20200908113600||R
SPM|1|ZZ00Z02342^J64-85290-01&L||ESWAB^E-swab^L^258500001^E-
swab^SCT|||||0^mL&mL&L|||20200908113600|20200908113632||Y
OBX|1|ST|COVID^Coronavirus (COVID-19) PCR^L^94309-2^Coronavirus (COVID-19)
PCR^LN||260373001||Ref: Afwezig|N|||F|||20200908113600|P8^P8^L|||20200911084626
NTE|1|L|De SARS-CoV-2 RT-PCR detecteert RNA (resten) van het virus (tot meer dan een
maand na start symptomen).\brDit staat niet steeds gelijk aan besmettelijkheid (tot +/- 10 na
dagen start symptomen).|RC
OBR|2|M0907607|200908-3987^L| COVIDCT_NGene^Ct N-gen PCR SARS-CoV-2^L^94510-
5^Ct N-gen PCR SARS-CoV-
2^L|||20200908113600|||||20200911084326|||||20200911093554|||F|^20200908113600^^R
ORC|SC|M0907607|200908-
3987^L||CM|^20200908113600^^R||20200911093554|||14776761^Zivago
&&Zivago^Andre^^^hcsr^RIZIV|83461669998^^^^^^EHEALTHBOX
TQ1|||||20200908113600||R
SPM|1|ZZ00Z02342^J64-85290-01&L||ESWAB^E-swab^L^258500001^E-
swab^SCT|||||0^mL&mL&L|||20200908113600|20200908113632||Y
OBX|1|ST|COVIDCT_NGene^Ct N-gen PCR SARS-CoV-2^L^94510-5^Ct N-gen PCR SARS-
CoV-2^LN||2.05||N|||F|||20200908113600|P8^P8^L|||20200911084620
OBR|3|M0907607|200908-3987^L| COVIDCT_SGene^Ct S-gen PCR SARS-CoV-2^L^94643-
4^Ct S-gen PCR SARS-CoV-
2^L|||20200908113600|||||20200911084326|||||20200911093554|||F|^20200908113600^^R
```


ORC|SC|M0907607|200908-
 3987^L||CM||^20200908113600^R||20200911093554|||14776761^Zivago
 &&Zivago^Andre^^^^hpr^RIZIV|83461669998^^^^^^^^EHEALTHBOX
TQ1|||||20200908113600||R
SPM|1|ZZ00Z02342^J64-85290-01&L||ESWAB^E-swab^L^258500001^E-
 swab^SCT|||||0^mL&mL&L||||20200908113600|20200908113632||Y
OBX|1|ST|COVIDCT_SGene^Ct S-gen PCR SARS-CoV-2^L^94643-4^Ct S-gen PCR SARS-
 CoV-2^LN||2.05||N||F|||20200908113600|P8^P8^L|||20200911084620

4 Segment definition

4.1 MSH

OML O21

MSH|^~\&|Lab_A|LABLAB_ORDEREXPORT^83461669998^EHEALTHBOX|Lab_C|LABLAB_ORDEREXPORT^71067049000^EHEALTHBOX|20200910052450||OML^O21|000001519692|P|2.5|||NE|AL||8859/15

OUL R24

MSH|^~\&|LAB_C|LABLAB_RESULTEXPORT^71067049000^EHEALTHBOX|LAB_A|LABLAB_RESULTS^83461669998^EHEALTHBOX|20200911093554||OUL^R24|000017121970|P|2.5|||NE|AL||8859/15

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Content OML O21	Content OUL R24
1	ST	R	Field Separator	" "		
2	ST	R	Encoding Characters	"^~\&"		
3	HD	O	Sending Application	Sending Application	Lab_A	Lab_C
4	HD	R	Sending Facility	Sending Facility (free tekst) ^ Identification number lab ^ EHEALTHBOX (fixed)	LABLAB_ORDEREXPORT^83461669998^EHEALTHBOX	LABLAB_RESULTEXPORT^71067049000^EHEALTHBOX
5	HD	O	Receiving Application	Receiving Application	Lab C	LAB_A
6	HD	R	Receiving Facility	Receiving Facility (free tekst) ^ Identification number lab ^ EHEALTHBOX (fixed)	LABLAB_ORDEREXPORT^71067049000^EHEALTHBOX	LABLAB_RESULTS^83461669998^EHEALTHBOX
7	TS	R	Date/Time Of Message	DateTime now	20130130113838	20200911093554
9	CM	R	Message Type	Message type	OML^O21	OUL^R24
10	ST	R	Message Control ID	Message control id	000001519692	000017121970
11	ID	R	Processing ID	P	P	P
12	ID	R	Version ID	2.5	2.5	2.5
15	ID	O	Accept Acknowledgment Type	Acknowledgment Type	NE	NE
16	ID	O	Application Acknowledgment Type	Acknowledgment Type	AL	AL
18	ID	O	Character Set	CodePage	8859/15	8859/15

4.2 PID

OML O21

PID|1||60120831909^^^INSZ||Test&&Test^Bart^^^^L||19601208|M|||Sluisweg
2A^^Gent^^9000^BE||09/2202321^^PH^^^^^^09/2202321-0485554528^^CP^^
^^^^0485554528-^NET^Internet^Bart.Test@telenet.be||||||||Gent|N|||||N

OUL R24

PID|1||60120831909^^^INSZ|| Test&&Test^Bart^^^^L ||19601208|M|||Sluisweg
2A^^Gent^^9000^BE||09/2202321^^PH^^^^^^09/2202321-0485554528^^CP^^
^^^^0485554528-^NET^Internet^Bart.Test@telenet.be||||||||Gent|N|||||N

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Content OML O21	Content OUL R24
1	SI	O	Set ID - Patient ID	PID counter	1	1
3	CX	R	Patient ID (see remark)	Patient Id^^^ INSZ (fixed)	60120831909^^^ INSZ	60120831909^^^ INSZ
5	XPN	R	Patient Name	LastName & LastName ^ FirstName ^^^^^ L (fixed)	Test&&Test^Bart^^^^^L	Test&&Test^Bart^^^^^L
7	TS	R	Date/Time of Birth	BirthDate	19601208	19601208
8	IS	R	Patient Sex	Sex	F : Female M : Male U : Unknown O : Other A : Ambiguous	F : Female M : Male U : Unknown O : Other A : Ambiguous
11	XAD	O	Patient Address	Street^^ Municipality^ Postcode^ CountryCode	Sluisweg 2A^^ Gent^^ 9000^ BE	Sluisweg 2A^^ Gent^^ 9000^ BE
13	XTN	O	Phone number Mobile Phone Email address	Phone^^PH Mobile phone^^CP ^NET^Internet^Email	09/2202321^^PH 0485554528^^CP ^NET^Internet^ bart.test@telenet.be	09/2202321^^PH 0485554528^^CP ^NET^Internet^ bart.test@telenet.be
23	ST	O	Birth Place	Birth Place	Gent	Gent
24	ID	O	Multiple Birth Indicator	Multiple Birth Indicator	Y: Multiple Birth N: No Multiple Birth	Y: Multiple Birth N: No Multiple Birth
30	ID	O	Patient death indicator	Patient death indicator	Y: Yes N: No	Y: Yes N: No

PID.3.1.1 contains the INSZ number of the patient. This number must be a strictly numeric value. No special characters like - , . , / are allowed.

4.3 SPM

OML O21

SPM|1|ZZ00Z02342&Barcode||ESWAB^E-swab^L^258500001^E-swab^SCT|||||0^mL&mL&L||||20200908113600|20200908113632||N

OUL R24

SPM|1|ZZ00Z02342^J64-85290-01&L||ESWAB^E-swab^L^258500001^E-swab^SCT|||||0^mL&mL&L||||20200908113600|20200908113632||Y

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Contents OML O21	Contents OML R24
1	SI	O	Set ID – SPM	SPM segment counter	1	1
2	EIP	O	Specimen ID	Sample barcode & FreeText ^FillerNumber & L	ZZ00Z02342&Barcode	ZZ00Z02342^J64-85290-01&L
4	CWE	R	Specimen Type	Local material code ^ Local description ^ L (fixed) ^ SCT code material ^ Description ^ SCT (fixed)	ESWAB ^ E-swab ^ L ^ 258500001^ E-swab ^ SCT	ESWAB ^ E-swab ^ L ^ 258500001^ E-swab ^ SCT
12	CQ	O	Specimen Collection Amount	Specimen Volume ^ Specimen Volume Unit & Specimen Volume Unit & L (fixed)	0 ^ ml & ml & L	0 ^ ml & ml & L
17	DR	O	Specimen Collection Date/Time	SamplingTime	20200908113600	20200908113600
18	TS	O	Specimen Received Date/Time	ReceiptTime	20200908113632	20200908113632
20	ID	O	Specimen Availability	Y : available N : not available	N	Y

4.4 ORC

OML O21

ORC|NW|M0907607^L||IP|^20200908113600^R||20200910052450||14776761^Zivago&&Zivago^Andre^^^^DR.^hcpr^RIZIV|83461669998^^^^^^^^EHEALTHBOX

OUL R24

ORC|SC|M0907607|200908-3987^L||CM|^20200908113600^R||20200911093554||14776761^Zivago&&Zivago^Andre^^^^DR.^hcpr^RIZIV|83461669998^^^^^^^^EHEALTHBOX

SEQ	DT	O P T	ELEMENT NAME	MAPPING	Content OML O21	Content OUL R24
1	ID	R	Order Control	Control NW: New SC : Update DC : Discontinue	NW	SC
2	EI	R	Placer Order Number	Placer Order Number ^ L	M0907607^ L	M0907607
3	EI	R	Filler Order Number	Filler Number ^ L	-	200908-3987^ L
5	ID	O	Order Status	Status IP: initial CM: complete DC: discontinued	IP	CM
7	TQ	R	Quantity/Timing	^^^RequestTime ^^Urgency R: normal S: urgent	^^^20200908113600 ^^R	^^^20130130112600 ^^R
9	TS	O	Date/Time of Transaction	Current Date/Time	20200910052450	20130130120728
12	XCN	R	Ordering Provider (see remark)	Code Requesting Physician ^ Physician LastName && Physician LastName ^ Physician FirstName ^^^^ Physician Title ^ Hcpr ^ RIZIV (fixed)	14776761^ Zivago&& Zivago^ Andre^^^^ DR.^ hcpr^ RIZIV	14776761^ Zivago&& Zivago^ Andre^^^^ DR.^ hcpr^ RIZIV
13	PL	O	Enterer's Location	Code Requesting Lab ^^^^^^^^ EHEALTHBOX	83461669998^^^^^^^^^^ EHEALTHBOX	83461669998^^^^^^^^^^ EHEALTHBOX

ORC.12.1.1 contains the RIZIV number of the requesting physician. This must contain only the first 8 characters of the RIZIV number and should only contain a numeric value. Special characters like - , . , / are not allowed.

4.5 OBR

OML O21

OBR|1|M0907607^L||PCRCovid^PCR Covid^L^94309-2^ PCR Covid
^LN|||20200908113600|||||20200908094100|||||20200910052450|||^^20200908
113600^^R

OUL R24

OBR|1|M0907607|200908-3987^L|COVID^Coronavirus (COVID-19)^L^94309-
2^Coronavirus (COVID-19)^LN|||20200908113600| |||||20200911084326|
|||||20200911093554|||F|^20200908113600^^R

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Content OML O21	Content OUL R24
1	SI	R	Set ID - OBR	OBR sequence number	1	1
2	EI	R	Placer Order Number	Placer Order Number ^ L (fixed)	M0907607^ L	M0907607
3	EI	C	Filler Order Number	Filler Order Number ^ L		200908-3987^ L
4	CE	R	Universal Service ID	Local requestcode ^ Local description ^ L (fixed) Loinc code ^ Local description ^ LN (fixed)	PCRCovid^ PCR Covid^ L^ 94309-2^ PCR Covid^ LN	COVID^ Coronavirus (COVID-19)^ L^ 94309-2^ Coronavirus (COVID-19)^ LN
7	TS	R	Observation Date/Time #	RequestTime	20200908113600	20130130112600
14	TS	C	Received Date/Time	Received Date/Time	20200910052450	20130130112644
23	ST	C	Result change datetime	Result time	-	20200911093554
25	ID	O	Result status	Result status	-	F
27	TQ	O	Quantity/Timing	^^^RequestTime^^ Urgency N: normal S: urgent	^^^20200908113600^^ N	^^^20200908113600^^ N

4.6 TQ1

OML O21

TQ1|||||||20200908113600||R

OUL R24

TQ1|||||||20200908113600||R

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Content OML O21	Content OUL R24
7	TS	O	Start date/time	RequestTime	20130130112600	20130130112600
9	CWE	O	Priority	Request Urgency R: normal S: urgent	R	R

4.7 OBX

OML O21

OBX|1|ST| CORONA_TPR^Test prescription reason^L^TP-CODE^Test prescription reason^LN ||TP0002||N||F||20200908113600

OUL R24

OBX|1|ST|COVID^Coronavirus (COVID-19) PCR^L^94309-2^Coronavirus (COVID-19)PCR^LN||260373001||Ref:Afwezig|N||F||20200908113600|P8^P8^L|||20200911084626

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Content OML O21	Content OUL R24
1	SI	R	Set ID - OBX	OBX sequence number	1	1
2	ID	R	Value Type	NM: numeric value SN: Structured Numeric ST: string FT: Formatted Text (value contains formatting characters (e.g. newline)) CE: Coded Entry	ST	ST
3	CE	R	Observation identifier	Local testcode^ Test description^ L (fixed)^ LOINC code^ Test description^ LN (fixed)	CORONA_TPR^ Test prescription reason^ L^ TP-CODE^ Test prescription reason^ LN	COVID^ Coronavirus (COVID-19) PCR^ L^ 94309-2^ Coronavirus (COVID-19)PCR^ LN
5	CE	C	Observation value	Result value In case of value < 0.1 < ^ 0.1	TP0002 (see table)	260373001 (see table)
6	CE	O	Unit	Local unit code ^ Unit description ^ L ^ UCUM code unit ^ Unit description ^ UCUM	-	-
7	ST	O	References ranges	Result value	-	Ref:Afwezig
8	IS	O	Abnormal flags	N: normal result L or LL H or HH : A: abnormal result	N	N
11	ID	R	Result status	F: final result C: correct result X: discontinued result	F	F
14	TS	O	Result time	Request time	20200908113600	20200908113600
15	CE	O	Producer Id	Result status	-	F
19	TS	O	Analysis time	Result validation time	-	20200911084626

4.8 NTE

OML O21

-

OUL R24

NTE|1|L|De SARS-CoV-2 RT-PCR detecteert RNA (resten) van het virus (tot meer dan een maand na start symptomen).\br\Dit staat niet steeds gelijk aan besmettelijkheid (tot +/- 10 na dagen start symptomen).|RC

SEQ	DT	OPT	ELEMENT NAME	MAPPING	Contents OML O21	Contents OML R24
1	SI	O	Set ID – NTE	SPM segment counter	-	1
2	ID	O	Source of comment	L (fixed)	-	L
3	FT	O	Comment	Comment value.	-	De SARS-CoV-2 RT-PCR detecteert RNA (resten) van het virus (tot meer dan een maand na start symptomen).\br\Dit staat niet steeds gelijk aan besmettelijkheid (tot +/- 10 na dagen start symptomen).
4	CE	O	Comment type	RC (fixed)	-	RC

5 EHEALTHBOX

The messages are exchanged by the EHEALTHBOX. The extension of the messages is *.hl7

There are 2 types of messages:

- Order request message
- Result message

These messages must be sent to the e-healthbox of the receiving lab. To distinguish the HL7 lab-lab message from other HL7 messages in the e-healthbox, the following metadata tags must be specified when sending the message to the e-healthbox.

For order request messages

CM-AttachmentTransportType=LABLAB-ORDER

For result messages

CM-AttachmentTransportType=LABLAB-RESULT

If you are using the HealthConnect application, this can be configured in their software in the dispatching rules.

If you are using other solutions, you should add these tags.