GENOMICA CAR and autoclart plus (ACP) result data and export model

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Index

1. Document history

Version	Date	Description
v0.1-1.0	Nov 14, 2007	Document creation and draft versions
v1.0	Dec 5, 2008	Document release
v1.01	Oct 24, 2013	Portfolio update
v2.0	Nov 26, 2014	Import template and changes in CSV export files
v2.01	Dec 18, 2014	Portfolio update
v2.02	Oct 5, 2015	Portfolio update
v2.03	Oct 5, 2016	Portfolio update
v 3.0	Feb 20, 2018	New PnemoVir2 format (52502)
v3.1	Apr 20, 2018	Update HPV assay ID 50263
v3.2	Oct 3, 2018	New kits PneumoVir2L and PneumoClart-BacteriaL
v3.3	Jun 6th, 2019	Update and revision
v3.4	March 13th 2020	Update new kit

2. About this document

This document describes the data storage, import and export model of GENOMICA's CAR reader, including the CAR reader integrated in the autoclart plus instrument.

3. Overview

The Clinical Array Reader (CAR) is GENOMICA's fast, compact, and affordable microarray reader for CLART® *in vitro* diagnostics platform. Its software allows automatic analysis and interpretation of microarrays for clinical use without any kind of user intervention, to produce accurate and reliable diagnostics. The autoclart plus® system integrates a CAR reader.

The CAR reader is based on built-in PC running Windows XP Service Pack 2 or Windows 7. Its software is able to import input data from LIMS systems or other laboratory IT infrastructures and produce reports of results in HTML format with embedded bitmap images. The lab technician can view and print these reports through the user-friendly graphical interface. This interface also provides a convenient search engine that can retrieve past results by sample reference, assay, date, etc. Finally, the CAR reader also generates the results of each test in raw text files following the standard comma separated value (CSV) format. This enables the lab to easily export results to local or remote databases including LIMS systems.

4. CAR models

GENOMICA is currently marketing two different models of CARs with different capabilities in terms of connectivity to LIMS and other laboratory IT infrastructures. Readers with Serial Number below 0320 can export results remotely but input data (sample IDs, assays, etc) is introduced manually. Readers with Serial Number above 0320, and those integrated in the autoclart plus systems can also import input from external IT resources, in a truly bidirectional connection. You can tell which model you have by the appearance of the main menu:

Serial Number below 0320
Export only

Serial Number above 0320
Bidirectional connection

Fig. 1: CAR models

5. Importing input data

NOTE: Importing input data is only available for CAR readers with Serial Number greater than 0320 and for all autoclart plus® (ACP) systems.

GENOMICA's CAR reads standard 96-well microarray plates. These plates consist of 12 columns of 8 wells each. Each column is an indivisible strip of eight tests of the same assay. At the moment, GENOMICA markets strips for HPV genotyping, respiratory virus detection, cancer DNA analysis, etc.

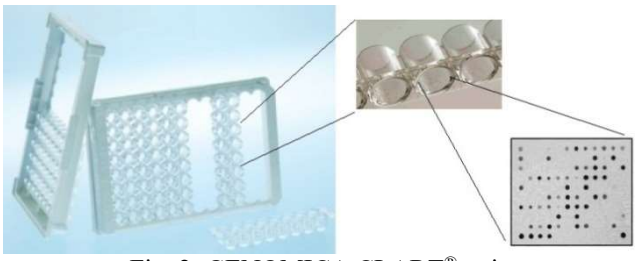

Fig. 2: GENOMICA CLART® strips

In a single run, the user may combine strips of different assays. For example, if she needs to run 17 samples for HPV genotyping and 14 for respiratory virus detection, she may use three strips of HPV and two of respiratory viruses. The remaining wells may be used in another occasion.

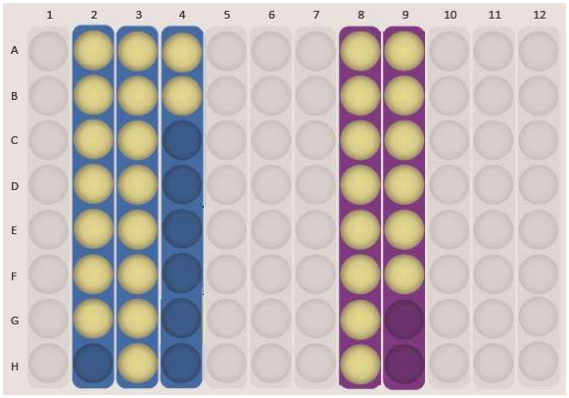

Fig. 3: 96-well microplate layout example.

As illustrated by figure 3, CAR input data consists of the following pieces of information:

- The positions of the strips in the plate and the assay (or assays) they belong to.
- The sample IDs and the wells they are being tested in.
- Additionally, the user may add a plate ID for future reference (optional).

It is not possible to assign a sample ID to a well whose assay has not been specified. Besides, it is useless to add an empty strip (with no sample IDs assigned). Finally, the assays must be installed in the reader. Any attempt to load data with any of these three inconsistencies will be responded with an error message.

5.1. Input data template

GENOMICA's CAR reader is able to import the layout of a microplate as defined above. The layout must be specified in a comma-separated-value (CSV) file that complies with the template specified in figure 4.

In this figure, strings in red are to be replaced by actual sample IDs, assay IDs and the plate ID. See Annex I for a list of valid assay IDs. Text in black, including every single comma character, are mandatory.

See the examples below for further details. You may copy and paste these examples in a plain text editor (such as Windows Notepad) and import them into your reader. Please note that these examples assume that the reader has the mentioned assays installed.

5.1.1. Example 1: layout in figure 3

In the previous section we dealt with three strips of HPV and two of respiratory viruses for 17 and 14 samples respectively. Strips were placed at positions 2, 3 and 4 for HPV and 8 and 9 for the respiratory kit (see figure 3). Suppose that samples are identified as HPV01, HPV02, HPV03, etc. and RES01, RES02, RES03, etc. respectively. Let the plate ID be "Fig3". The input file would be:

```
CAR input template,,,,,,,,,,,,,
CLART Strips,,,,,,,,,,,,,
v2,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,Plate ID,Fig3,,,,,,,,,
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,1,2,3,4,5,6,7,8,9,10,11,12
,,,,50208,50208,50208,,,,50516,50516,,,
,,,,,,,,,,,,,
,A,,,HPV01,HPV08,HPV16,,,,RES01,RES09,,,
,B,,,HPV02,HPV09,HPV17,,,,RES02,RES10,,,
,C,,,HPV03,HPV10,,,,,RES03,RES11,,,
,D,,,HPV04,HPV11,,,,,RES04,RES12,,,
,E,,,HPV05,HPV12,,,,,RES05,RES13,,,
,F,,,HPV06,HPV13,,,,,RES06,RES14,,,
,G,,,HPV07,HPV14,,,,,RES07,,,,
,H,,,,HPV15,,,,,RES08,,,,
```

5.1.2. Example 2: two strips, no plate ID

Suppose the user needs to run one strip of HPV with 8 samples and another one of cancer mutation analysis with just four. The user places the former in the first column

and the latter in the last one (column 12). For cancer analysis she uses wells E12, F12, G12 and H12. Sample IDs are again consecutive. She doesn't assign a plate ID.

```
CAR input template,,,,,,,,,,,,,
CLART Strips,,,,,,,,,,,,,
v2,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,Plate ID,,,,,,,,,,
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,1,2,3,4,5,6,7,8,9,10,11,12
,,,50208,,,,,,,,,,50913
,,,,,,,,,,,,,
,A,,HPV01,,,,,,,,,,
,B,,HPV02,,,,,,,,,,
,C,,HPV03,,,,,,,,,,
,D,,HPV04,,,,,,,,,,
,E,,HPV05,,,,,,,,,,CMA01
,F,,HPV06,,,,,,,,,,CMA02
,G,,HPV07,,,,,,,,,,CMA03
,H,,HPV08,,,,,,,,,,CMA04
```

5.1.3. Examples of non-compliance

The following examples are usual cases of non-compliance with the previous specification. Please note that if the CAR reader is provided with a non-compliant input file, an error will be displayed and the user won't be able to run the samples:

- Wrong number of commas. For example, in line 6,
  `,,,Plate ID,Fig1,,,,` (please notice 6 commas missing at the end)
- Empty lines of commas missing: lines 4, 5, or 7 not present, etc.
- Blank lines before the first one: **`CAR input template`**`,,,,,,,,,,,,,`
- Not valid sample IDs or plate IDs, for example, containing non alpha-numeric characters such as `JS93[d` or `DL?}}`.
- Not valid or unknown assay ID, for example `50201`. (See Annex I)
- An assay ID is specified for a strip but no sample IDs are assigned to any of its wells.
- A sample ID is specified for a well but its strip doesn't have an assay ID assigned.

Figure 4: Input data template

```
CAR input template,,,,,,,,,,,,,
CLART Strips,,,,,,,,,,,,,
v2,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,Plate ID,PlateID,,,,,,,,,
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,,,1,2,3,4,5,6,7,8,9,10,11,12
,,,AID_S1,AID_S2,AID_S3,AID_S4,AID_S5,AID_S6,AID_S7,AID_S8,AID_S9,AID_S10,AID_S11,AID_S12
,,,,,,,,,,,,,
,,,,,,,,,,,,,
,A,,SID_A1,SID_A2,SID_A3,SID_A4,SID_A5,SID_A6,SID_A7,SID_A8,SID_A9,SID_A10,SID_A11,SID_A12
,B,,SID_B1,SID_B2,SID_B3,SID_B4,SID_B5,SID_B6,SID_B7,SID_B8,SID_B9,SID_B10,SID_B11,SID_B12
,C,,SID_C1,SID_C2,SID_C3,SID_C4,SID_C5,SID_C6,SID_C7,SID_C8,SID_C9,SID_C10,SID_C11,SID_C12
,D,,SID_D1,SID_D2,SID_D3,SID_D4,SID_D5,SID_D6,SID_D7,SID_D8,SID_D9,SID_D10,SID_D11,SID_D12
,E,,SID_E1,SID_E2,SID_E3,SID_E4,SID_E5,SID_E6,SID_E7,SID_E8,SID_E9,SID_E10,SID_E11,SID_E12
,F,,SID_F1,SID_F2,SID_F3,SID_F4,SID_F5,SID_F6,SID_F7,SID_F8,SID_F9,SID_F10,SID_F11,SID_F12
,G,,SID_G1,SID_G2,SID_G3,SID_G4,SID_G5,SID_G6,SID_G7,SID_G8,SID_G9,SID_G10,SID_G11,SID_G12
,H,,SID_H1,SID_H2,SID_H3,SID_H4,SID_H5,SID_H6,SID_H7,SID_H8,SID_H9,SID_H10,SID_H11,SID_H12
```

NOTES:

- `PlateID` stands for the plate ID. It is optional, so it might be an empty string.
- `AID_S4` stands for the assay ID of the strip in position 4. This field will be empty if no strip is used in position 4 of the plate.
- `SID_E6` stands for the sample ID in well E6. This field could be empty if the well is not used.
- A valid assay ID must be specified for a strip if any of its wells has a sample ID assigned.
- A valid sample ID must be specified in at least one well if an assay ID has been assigned to the strip it belongs.
- See examples for further information or contact GENOMICA support team.

6. CAR and ACP data storage

The root folder for storage of results depends on the model of CAR reader. Instruments with Serial Number below 0320 store their data under `C:\Genomica\Data`, while readers above this number use `C:\CLEIS\Data`. Readers in autoclart plus® (ACP) systems use the same structure as readers with SN > 320 but with root `C:\CLEISPLUS`

Inside these folders, you will find a subfolder for the HTML reports displayed on the screen and another subfolder for the CSV files specifically designed to be imported in LIMS and similar database systems.

Readers SN < 0320

```
+ C:\
  + Genomica
    + Data
      Results
          (images and reports)
      CARExport
          (CSV raw text files)
```

Readers SN > 0320 and ACP

```
+ C:\
  + CLEIS (or CLEISPLUS)
    + Data
      History
          (images and reports)
      Export
          (CSV raw text files)
```

Fig. 5: CAR folder architecture including CAR in autoclart plus (ACP)

6.1. The reports folder

The `Results/History` folder (see fig. 5) contains all the runs assayed in the device. Each of them is identified by a tag name that comprises the date, time and a running number. Inside, you may find images and HTML reports according to the following schema:

```
+ Results/History
    2008_10_24_9_12_24_122
    2008_11_1_11_32_32_376        (runs)
    2008_11_13_16_12_16_273
  + 2008_11_14_13_52_2_741
      A1
      B1                          (microplate wells)
      C1
    + D1
      + 1
        + Sensovation
            D1.bmp                (microarray image)
        + Genomica
            result.raw.html
            result.res.html       (HTML result reports)
            result.prn.html
```

Fig. 6: Reports folder architecture

6.2. The CSV export folder

The `CARExport/Export` folder (see fig. 5) contains all the results in CSV raw text format. These files are suitable to be imported in remote databases or standard LIMS systems. Laboratory IT services may share this folder over the network and automate imports to in-house systems.

The file names contain the date, time and the run unique identification number, prefixed by the keyword `export`, as it is shown below:

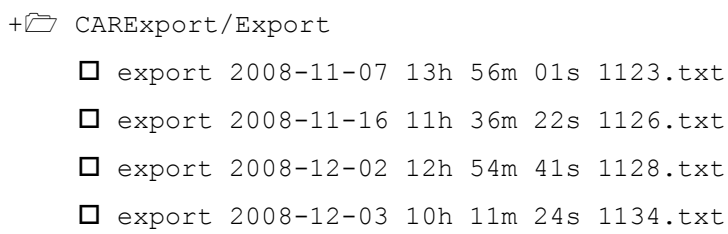

Fig. 7: CSV export folder contents

The data schema of these files is described in the next section.

7. CSV export files

The CAR reader generates one CSV export file for every run. This file contains as many lines as samples were included in the run. The file doesn't have a header or any kind of accessory lines at the beginning or at the end. The first line corresponds to the first sample, etc.

Each line contains as comma separated values, the information about the sample, the assay, the run and the result of the test. Specifically,

- Sample ID and the plate ID (if specified)
- Assay ID, microarray or strip ID (if available) and the position of the sample in the microplate.
- Run ID, the date and time and the serial number of the CAR reader
- The result of the test, including alarms or warning messages the reader attaches to actual positives or negatives, etc.

GENOMICA's CLART® assays are based on microarrays that simultaneously detect and/or genotype several IVD targets. This means that the result of one test might correspond to several tests as defined in your LIMS or laboratory database.

For example, CLART® HPV2 is GENOMICA's in vitro diagnostic for the detection and genotyping of Human Papillomavirus. The HPV microarray determines presence or absence of 35 different strains of the virus in the sample. The CSV line for a

sample will contain a result for every single strain determination (35 positives, negatives or uncertainties coded as 1/0/-1), plus a field for warnings or messages related to the test. Figure 8 shows an example of the CSV line for a sample assayed for HPV.

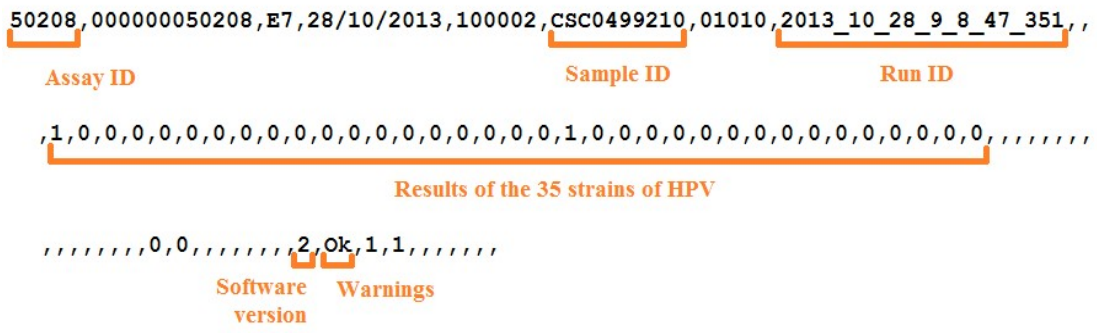

Fig. 8: CSV line of results of sample CSC0499210 with HPV (assay ID 50208) with some fields highlighted for illustration.

Annex II of this document describes the schema of the CSV export lines for all the kits currently marketed by GENOMICA, including all the individual determinations they consist of and how the results are coded.

8. Contact and support

For additional support and technical details on data storage, import and export of results for the CAR or ACP readers, please contact your GENOMICA representative.

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Annex I

List of valid AssayIDs

AssayID	Diagnostic Kit
50208	CLART® HPV2
50213	CLART® HPV4
50214	CLART® HPV4S
50263	CLART® HPV
50305	CLART® MetaBone
50516	CLART® PneumoVir
50608	CLART® ENTHERPEX
50708	CLART® SEPTIBAC Type 1
50806	CLART® ENTEROBAC
50913	CLART® KRAS-BRAF-PI3K
51106	CLART® SEPTIBAC Type 2
51510	CLART® STIs AB
51511	CLART® STIs A
51512	CLART® STIs B
51905	PneumoCLART bacteria®
51908	CLART® PneumoCLART-BacteriaL
52005	CLART® NRAS-iKRAS
52108	CLART® EGFR
52501	CLART® PneumoVir2
52502	CLART® PneumoVir2
52550	CLART® PneumoVir2L
50220	CLART® HPV3

Annex II

Schema of the CSV export files by Assay ID

A. 50208 – CLART® HPV2 / 50213 – CLART® HPV4

Field number	Name	Data type	Max size	Description	
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50208 for HPV2 or 50213 for HPV4	
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)	
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)	
4	Date	Date	DD/MM/YYYY	Test date	
5	Plate ID	Text	50 characters	Microplate reference	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)	
11	Type 66	Numeric	-128 to 127	Result for HPV66	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
12	Type 11	Numeric	-128 to 127	Result for HPV11	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Type 16	Numeric	-128 to 127	Result for HPV16	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Type 18	Numeric	-128 to 127	Result for HPV18	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Type 26	Numeric	-128 to 127	Result for HPV26	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Type 31	Numeric	-128 to 127	Result for HPV31	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Type 33	Numeric	-128 to 127	Result for HPV33	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Type 35	Numeric	-128 to 127	Result for HPV35	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Type 39	Numeric	-128 to 127	Result for HPV39	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Type 40	Numeric	-128 to 127	Result for HPV40	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Type 42	Numeric	-128 to 127	Result for HPV42	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Type 43	Numeric	-128 to 127	Result for HPV43	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Type 44	Numeric	-128 to 127	Result for HPV44	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
24	Type 45	Numeric	-128 to 127	Result for HPV45	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Type 51	Numeric	-128 to 127	Result for HPV51	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Type 52	Numeric	-128 to 127	Result for HPV52	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
27	Type 53	Numeric	-128 to 127	Result for HPV53	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Type 54	Numeric	-128 to 127	Result for HPV54	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Type 56	Numeric	-128 to 127	Result for HPV56	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Type 58	Numeric	-128 to 127	Result for HPV58	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
31	Type 59	Numeric	-128 to 127	Result for HPV59	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
32	Type 61	Numeric	-128 to 127	Result for HPV61	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Type 62	Numeric	-128 to 127	Result for HPV62	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
34	Type 68	Numeric	-128 to 127	Result for HPV68	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
35	Type 6	Numeric	-128 to 127	Result for HPV6	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
36	Type 70	Numeric	-128 to 127	Result for HPV70	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
37	Type 71	Numeric	-128 to 127	Result for HPV71	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
38	Type 72	Numeric	-128 to 127	Result for HPV72	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
39	Type 73	Numeric	-128 to 127	Result for HPV73	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
40	Type 81	Numeric	-128 to 127	Result for HPV81	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
41	Type 82	Numeric	-128 to 127	Result for HPV82	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
42	Type 83	Numeric	-128 to 127	Result for HPV83	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
43	Type 84	Numeric	-128 to 127	Result for HPV84	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
44	Type 85	Numeric	-128 to 127	Result for HPV85	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
45	Type 89	Numeric	-128 to 127	Result for HPV89	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
46	Overall HPV	Numeric	-128 to 127	Overall result for HPV	0 = All HPV strains tested are negative 1 = At least one strain is positive -1 = No positives found but the result of at least one strain is uncertain -100 = Missing value
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 2**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.	
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages	

B. 50214 – CLART® HPV4S

Field number	Name	Data type	Max size	Description	
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50208 for HPV2 or 50213 for HPV4	
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)	
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)	
4	Date	Date	DD/MM/YYYY	Test date	
5	Plate ID	Text	50 characters	Microplate reference	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)	
11	Type 66	Numeric	-128 to 127	Result for HPV66	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Type 11	Numeric	-128 to 127	Result for HPV11	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Type 16	Numeric	-128 to 127	Result for HPV16	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Type 18	Numeric	-128 to 127	Result for HPV18	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Type 31	Numeric	-128 to 127	Result for HPV31	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Type 33	Numeric	-128 to 127	Result for HPV33	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
17	Type 35	Numeric	-128 to 127	Result for HPV35	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Type 39	Numeric	-128 to 127	Result for HPV39	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Type 45	Numeric	-128 to 127	Result for HPV45	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Type 51	Numeric	-128 to 127	Result for HPV51	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Type 52	Numeric	-128 to 127	Result for HPV52	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Type 56	Numeric	-128 to 127	Result for HPV56	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Type 58	Numeric	-128 to 127	Result for HPV58	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
24	Type 59	Numeric	-128 to 127	Result for HPV59	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Type 68	Numeric	-128 to 127	Result for HPV68	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Type 6	Numeric	-128 to 127	Result for HPV6	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Overall HPV	Numeric	-128 to 127	Overall result for HPV	0 = All HPV strains tested are negative 1 = At least one strain is positive -1 = No positives found but the result of at least one strain is uncertain -100 = Missing value

Field number	Name	Data type	Max size	Description
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 2**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

C. 50263 – CLART® HPV

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case 50263
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested

Field number	Name	Data type	Max size	Description	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)	
11	Type 66	Numeric	-128 to 127	Result for HPV66	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Type 11	Numeric	-128 to 127	Result for HPV11	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Type 16	Numeric	-128 to 127	Result for HPV16	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Type 18	Numeric	-128 to 127	Result for HPV18	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Type 26	Numeric	-128 to 127	Result for HPV26	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Type 31	Numeric	-128 to 127	Result for HPV31	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Type 33	Numeric	-128 to 127	Result for HPV33	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Type 35	Numeric	-128 to 127	Result for HPV35	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Type 39	Numeric	-128 to 127	Result for HPV39	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Type 40	Numeric	-128 to 127	Result for HPV40	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Type 42	Numeric	-128 to 127	Result for HPV42	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Type 44	Numeric	-128 to 127	Result for HPV44	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Type 45	Numeric	-128 to 127	Result for HPV45	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
24	Type 51	Numeric	-128 to 127	Result for HPV51	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Type 52	Numeric	-128 to 127	Result for HPV52	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Type 53	Numeric	-128 to 127	Result for HPV53	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Type 54	Numeric	-128 to 127	Result for HPV54	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Type 56	Numeric	-128 to 127	Result for HPV56	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Type 58	Numeric	-128 to 127	Result for HPV58	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Type 59	Numeric	-128 to 127	Result for HPV59	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
31	Type 61	Numeric	-128 to 127	Result for HPV61	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
32	Type 62	Numeric	-128 to 127	Result for HPV62	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Type 68	Numeric	-128 to 127	Result for HPV68	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
34	Type 6	Numeric	-128 to 127	Result for HPV6	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
35	Type 70	Numeric	-128 to 127	Result for HPV70	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
36	Type 71	Numeric	-128 to 127	Result for HPV71	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
37	Type 72	Numeric	-128 to 127	Result for HPV72	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
38	Type 73	Numeric	-128 to 127	Result for HPV73	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
39	Type 81	Numeric	-128 to 127	Result for HPV81	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
40	Type 82	Numeric	-128 to 127	Result for HPV82	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
41	Type 83	Numeric	-128 to 127	Result for HPV83	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
42	Type 84	Numeric	-128 to 127	Result for HPV84	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
43	Overall HPV	Numeric	-128 to 127	Overall result for HPV	0 = All HPV strains tested are negative 1 = At least one strain is positive -1 = No positives found but the result of at least one strain is uncertain -100 = Missing value
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 2**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.	
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages	

D. 50516 – CLART® PneumoVir

Field number	Name	Data type	Max size	Description	
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50516	
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)	
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)	
4	Date	Date	DD/MM/YYYY	Test date	
5	Plate ID	Text	50 characters	Microplate reference	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)	
11	Adenovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Bocavirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Coronavirus type 229	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Enterovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Influenza A H1N1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
16	Influenza A H3N2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Influenza A H1N1/2009	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Influenza A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Influenza B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Influenza C	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Metapneumovirus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Metapneumovirus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Metapneumovirus (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
24	Parainfluenza 1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Parainfluenza 2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Parainfluenza 3	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Parainfluenza 4 type A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Parainfluenza 4 type B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Parainfluenza 4 (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Rhinovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
31	Resp Syncytial Virus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
32	Resp Syncytial Virus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Metapneumovirus type	Numeric	-128 to 127	Genotyping of Metapneumovirus	0 = Negative 1 = Positive types A or B 2 = Positive for type A 3 = Positive for type B -1 = Uncertain -100 = Missing value
34	Influenza type A	Numeric	-128 to 127	Genotyping of Influenza A	0 = Negative 1 = Positive – no subtyping available 2 = Influenza A H1N1 3 = Influenza A H3N2 4 = Influenza A H1N1/2009 -1 = Uncertain -100 = Missing value

Field number	Name	Data type	Max size	Description
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 2**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

E. 50608 – CLART® ENTHERPEX

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50608
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested

Field number	Name	Data type	Max size	Description	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)	
11	Cytomegalovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Epstein Barr Virus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Enterovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Human Herpesvirus VI	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Human Herpesvirus VII	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Human Herpesvirus VIII	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Herpes Simplex Virus I	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Herpes Simplex Virus II	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Varicella Zoster	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 2**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.	

Field number	Name	Data type	Max size	Description
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

F. 50708 – CLART® SEPTIBAC Type 1

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50708
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

G. 50806 – CLART® ENTEROBAC

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50806
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

H. 50913 – CLART® KRAS-BRAF-PI3K

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50913
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

I. 51106 – CLART® SEPTIBAC Type 2

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 51106
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

J. 51510 – CLART® STIs AB

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 51510
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

K. 51511 – CLART® STIs A

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 51511
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

L. 51512 – CLART® STIs B

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 51512
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

M. 51905 – PneumoCLART® bacteria

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 51905
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

N. 51908 - CLART® PneumoCLART-BacteriaL

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 51908
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

O. 52005 – CLART® NRAS-iKRAS

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 52005
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

P. 52108 – CLART® EGFR

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 52108
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

Q. 52501 – CLART® PneumoVir2

Field number	Name	Data type	Max size	Description	
1	Assay ID	Text	6 characters	Assay identification number, in this case, 52501	
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)	
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)	
4	Date	Date	DD/MM/YYYY	Test date	
5	Plate ID	Text	50 characters	Microplate reference	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2016_04_04_07_47_10_130”)	
11	Adenovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Bocavirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Coronavirus type 229	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Coronavirus type NL63	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Coronavirus Type OC43	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Coronavirus (229, NL63 or OC43)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
17	Enterovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Influenza A H1N1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Influenza A H3N2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Influenza A H7N9	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Influenza A H1N1/2009	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Influenza A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Influenza B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
24	Influenza C	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Metapneumovirus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Metapneumovirus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Metapneumovirus (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Parainfluenza 1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Parainfluenza 2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Parainfluenza 3	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
31	Parainfluenza 4 type A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
32	Parainfluenza 4 type B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Parainfluenza 4 (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
34	Rhinovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
35	Resp Syncytial Virus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
36	Resp Syncytial Virus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
37	Metapneumovirus type	Numeric	-128 to 127	Genotyping of Metapneumovirus	0 = Negative 1 = Positive types A or B 2 = Positive for type A 3 = Positive for type B -1 = Uncertain -100 = Missing value
38	Influenza type A	Numeric	-128 to 127	Genotyping of Influenza A	0 = Negative 1 = Positive – no subtyping available or co-infection 2 = Influenza A H1N1 3 = Influenza A H3N2 4 = Influenza A H1N1/2009 5 = Influenza A H7N9 -1 = Uncertain -100 = Missing value

Field number	Name	Data type	Max size	Description
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 2**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

R. 52502 – CLART® PneumoVir2

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 52502
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference
6	Sample reference	Text	50 characters	Reference of the sample being tested

Field number	Name	Data type	Max size	Description	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2016_04_04_07_47_10_130”)	
11	Adenovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Bocavirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Coronavirus type 229	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Coronavirus type NL63	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Coronavirus Type OC43	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Coronavirus (229, NL63 or OC43)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Enterovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Influenza A H1N1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Influenza A H3N2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Influenza A H1N1/2009	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Influenza A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Influenza B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Influenza C	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
24	Metapneumovirus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Metapneumovirus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Metapneumovirus (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Parainfluenza 1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Parainfluenza 2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Parainfluenza 3	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Parainfluenza 4 type A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
31	Parainfluenza 4 type B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
32	Parainfluenza 4 (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Rhinovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
34	Resp Syncytial Virus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
35	Resp Syncytial Virus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
36	Metapneumovirus type	Numeric	-128 to 127	Genotyping of Metapneumovirus	0 = Negative 1 = Positive types A or B 2 = Positive for type A 3 = Positive for type B -1 = Uncertain -100 = Missing value
37	Influenza type A	Numeric	-128 to 127	Genotyping of Influenza A	0 = Negative 1 = Positive – no subtyping available or co-infection 2 = Influenza A H1N1 3 = Influenza A H3N2 4 = Influenza A H1N1/2009 -1 = Uncertain -100 = Missing value
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 3**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.	
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages	

S. 52550 - CLART® PneumoVir2L

Field number	Name	Data type	Max size	Description	
1	Assay ID	Text	6 characters	Assay identification number, in this case, 52550	
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)	
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)	
4	Date	Date	DD/MM/YYYY	Test date	
5	Plate ID	Text	50 characters	Microplate reference	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2016_04_04_07_47_10_130”)	
11	Adenovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Bocavirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Coronavirus type 229	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Coronavirus type NL63	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Coronavirus Type OC43	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
16	Enterovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Rhinovirus/Enterovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Influenza A H1N1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Influenza A H3N2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Influenza A H1N1/2009	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Influenza A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Influenza B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
23	Influenza C	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
24	Metapneumovirus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Metapneumovirus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Metapneumovirus (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Parainfluenza 1	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Parainfluenza 2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Parainfluenza 3	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Parainfluenza 4 type A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
31	Parainfluenza 4 type B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
32	Parainfluenza 4 (A or B)	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Rhinovirus	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
34	Resp Syncytial Virus A	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
35	Resp Syncytial Virus B	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
36	Metapneumovirus type	Numeric	-128 to 127	Genotyping of Metapneumovirus	0 = Negative 1 = Positive types A or B 2 = Positive for type A 3 = Positive for type B -1 = Uncertain -100 = Missing value
37	Influenza type A	Numeric	-128 to 127	Genotyping of Influenza A	0 = Negative 1 = Positive – no subtyping available or co-infection 2 = Influenza A H1N1 3 = Influenza A H3N2 4 = Influenza A H1N1/2009 -1 = Uncertain -100 = Missing value

Field number	Name	Data type	Max size	Description
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 1**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages

T. 50220 – CLART® HPV3

Field number	Name	Data type	Max size	Description
1	Assay ID	Text	6 characters	Assay identification number, in this case, 50220
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)
4	Date	Date	DD/MM/YYYY	Test date
5	Plate ID	Text	50 characters	Microplate reference

Field number	Name	Data type	Max size	Description	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2008_9_17_12_56_44_3442”)	
11	Type 101	Numeric	-128 to 127	Result for HPV101	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
12	Type 102	Numeric	-128 to 127	Result for HPV102	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
13	Type 103	Numeric	-128 to 127	Result for HPV103	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
14	Type 106	Numeric	-128 to 127	Result for HPV106	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
15	Type 66	Numeric	-128 to 127	Result for HPV66	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
16	Type 11	Numeric	-128 to 127	Result for HPV11	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
17	Type 150	Numeric	-128 to 127	Result for HPV150	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
18	Type 151	Numeric	-128 to 127	Result for HPV151	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
19	Type 16	Numeric	-128 to 127	Result for HPV16	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
20	Type 18	Numeric	-128 to 127	Result for HPV18	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
21	Type 26	Numeric	-128 to 127	Result for HPV26	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
22	Type 31	Numeric	-128 to 127	Result for HPV31	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
23	Type 33	Numeric	-128 to 127	Result for HPV33	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
24	Type 34	Numeric	-128 to 127	Result for HPV34	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
25	Type 35	Numeric	-128 to 127	Result for HPV35	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
26	Type 39	Numeric	-128 to 127	Result for HPV39	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
27	Type 40	Numeric	-128 to 127	Result for HPV40	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
28	Type 42	Numeric	-128 to 127	Result for HPV42	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
29	Type 43	Numeric	-128 to 127	Result for HPV43	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
30	Type 44	Numeric	-128 to 127	Result for HPV44	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
31	Type 45	Numeric	-128 to 127	Result for HPV45	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
32	Type 51	Numeric	-128 to 127	Result for HPV51	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
33	Type 52	Numeric	-128 to 127	Result for HPV52	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
34	Type 53	Numeric	-128 to 127	Result for HPV53	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
35	Type 54	Numeric	-128 to 127	Result for HPV54	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
36	Type 56	Numeric	-128 to 127	Result for HPV56	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
37	Type 58	Numeric	-128 to 127	Result for HPV58	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
38	Type 59	Numeric	-128 to 127	Result for HPV59	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
39	Type 61	Numeric	-128 to 127	Result for HPV61	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
40	Type 62	Numeric	-128 to 127	Result for HPV62	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
41	Type 64	Numeric	-128 to 127	Result for HPV64	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
42	Type 67	Numeric	-128 to 127	Result for HPV67	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
43	Type 68	Numeric	-128 to 127	Result for HPV68	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
44	Type 69	Numeric	-128 to 127	Result for HPV69	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
45	Type 6	Numeric	-128 to 127	Result for HPV6	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
46	Type 70	Numeric	-128 to 127	Result for HPV70	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
47	Type 71	Numeric	-128 to 127	Result for HPV71	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
48	Type 72	Numeric	-128 to 127	Result for HPV72	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
49	Type 73	Numeric	-128 to 127	Result for HPV73	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
50	Type 74	Numeric	-128 to 127	Result for HPV74	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
51	Type 81	Numeric	-128 to 127	Result for HPV81	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
52	Type 82	Numeric	-128 to 127	Result for HPV82	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
53	Type 83	Numeric	-128 to 127	Result for HPV83	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description	
54	Type 84	Numeric	-128 to 127	Result for HPV84	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
55	Type 85	Numeric	-128 to 127	Result for HPV85	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
56	Type 86	Numeric	-128 to 127	Result for HPV86	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
57	Type 87	Numeric	-128 to 127	Result for HPV87	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
58	Type 89	Numeric	-128 to 127	Result for HPV89	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
59	Type 97	Numeric	-128 to 127	Result for HPV97	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing
70	Version	Numeric or Empty	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be EMPTY in this SW version**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.	
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages	

U. 53003-CLART® COVID-19

Field number	Name	Data type	Max size	Description	
1	Assay ID	Text	6 characters	Assay identification number, in this case, 53003	
2	Microarray ID	Text	15 characters	Microarray traceability number (may not be available, will show Assay ID instead)	
3	Well name	Text	3 characters	Microplate well name (i.e. “A2”, “B5”, “H12”, etc.)	
4	Date	Date	DD/MM/YYYY	Test date	
5	Plate ID	Text	50 characters	Microplate reference	
6	Sample reference	Text	50 characters	Reference of the sample being tested	
7	Device serial number	Text	6 characters	Device serial number given by its manufacturer	
8	Run ID	Text	25 characters	Run identification string (i.e. “2019_04_04_07_47_10_130”)	
11	SARS-CoV-2	Numeric	-128 to 127	Result for virus	0 = Negative, 1 = Positive, -1 = Uncertain, -100 = Missing

Field number	Name	Data type	Max size	Description
70	Version	Numeric	0 to 255	Version of schema used to generate the export file. **IMPORTANT NOTICE** **The value in this field must be 1**. If you found another value, please contact GENOMICA for the corresponding version of this document. Field ordering and contents may vary between versions.
71	Result	Text	500 characters	Text string that contains the result of the test, including alarms or warning messages