# Create a Properly Formatted Data File

Data files can be created for point or summarized data. Each line (data record) of the file contains fields for a single test. These fields must be distinct sequence that identifies the lab number, lot number and test specified with Unity codes. Each test is identified by codes for analyte, method, instrument, reagent, unit and temperature.

The fields are delimited by a vertical bar (7C hex) or by another printab character, such as a comma or tilde (~). The first field identifies the lin point or summarized data, and the subsequent fields of codes identify t test.

Fields are represented using the ASCII (ISO 646) character set. Characte used to delimit fields should be different from the characters used with fields, such as a comma or period to represent a decimal point. Fields m be enclosed in quotation marks.

Data records for a particular test must appear in increasing date-tim order to avoid being rejected.

## Point Data Record

Point | date-time | run | level | lab | lot | analyte | method | instrume reagent | unit | temperature | operator| comment| reserved | value | ⏎

Example of a point data record

Point | 20041210080000 | 1 | 1 | 999988 | 15010 | 166 | 063 | 0421 | 00 | 93 | 6 | JTL | | | 10 |

## Summary Data Record

Summary | date-time | run | level | lab | lot | analyte | method | instrument | reagent | unit | temperature | operator| comment| reserve | mean | sd | n | ⏎

Example of a summary data record

Summary | 20041210 | 1 | 1 | 999988 | 15010 | 166 | 063 | 0421 | 0006 | 93 | 6 |JTL | | | 35.6 | 2.1 | 25 |





## Fields in Import Files

- Point or Summary: Specify Point or Summary to indicate the type of data. The first letter, (P or S) must be upper case, followed by lower-case letters.
- date-time: Date (and, optionally, time of day) the test was performed, specified in the form yyyymmdd [hh[mm[ss[.xx]]] |. Characters enclosed in brackets ([ ]) are optional. This format conforms to the ASTM E 1238-91 (6.6.19.1) and ASTM E 1394-91 (6.6.2) specifications.
- run: Analytical run number with which the test is to be identified.
- level: Level number of the control being tested (the number 1, 2, or 3).
- lab: Lab number assigned by Bio-Rad for use with the test (6 digits).
- lot: Lot number for the control (5 digits). The fifth digit must be a zero (0).
- analyte: Unity code for the analyte (3 digits).
- method: Unity code for the method (3 digits).
- instrument: Unity code for the instrument (4 digits).
- reagent: Unity code for the reagent (4 digits).
- unit: Unity code for the unit of measure (2 digits).
- temperature: Unity code for the temperature (1 digit).
- Operator initials: you can place the initials of the operator performing the test in this field. This field can be blank.
- comment: you can place a free-text comment here. This field can be blank.
- reserved: Reserved field, do not use.
- value: (Point record only) The value of the test result, specified as a positive number less than or equal to 99999.0 with up to 3 decimal places. The characters > (greater than) and < (less than) are not valid.
- mean: (Summary record only) The mean of the test results expressed as a positive number less than or equal to 99999.0 with up to 3 decimal places.
- sd: (Summary record only) the standard deviation of the test results expressed as a non-negative number less than or equal to 99999.0 with up to 3 decimal places.
- n: (Summary record only) The number of data values used to calculate the corresponding mean and standard deviation expressed as a positive integer greater than 0 and less than or equal to 32767.