

ESR-Chex Plus

Instrument/Serial Number: Diesse MINI-CUBE 1475

Lab Acct Number: 00100

SAMPLE LAB REPORT

1234 MAIN STREET

ANYTOWN, NE 12345 US

Shift: 1

Lot Exp: 6/30/2021

Due: 1/5/2021

Submitted: 1/4/2021

From: 12/1/2020

To: 12/31/2020

INTERPRETIVE COMMENTS

THIS PAGE IS AN OVERVIEW OF THE SECTIONS CONTAINED IN YOUR REPORT

REVIEWED BY: _____

DATE: _____

GENERAL:

Data is separated in left and right columns to provide calculations for the current cycle submission, and cumulative calculations over the dating of the lot. This data reflects the same units of measure for each parameter as listed on the product assay. On the first submission for each lot, the Current and Cumulative data will be the same. The CV may be large on some parameters due to the small numeric value, and/or the small number of significant digits reported.

S.D.I.:

This is a numerical presentation of your laboratory's data on the current lot. The S.D.I. allows you to inspect results from many different tests at the same time, without having to consider different units and the actual magnitude of the change in the units of the test. In general, any S.D.I. of 2.0 or greater deserves some attention because your method shows a systematic difference from the group. The S.D.I. report is provided for selected parameters.

OUTLIERS:

Daily Data Submission: Streck utilizes the Grubbs test for the determination of outliers. Any data point that fails the Grubbs test or is greater than twice the published assay range will be excluded from the data set. Excluded values are marked on the final section of the report.

Summary Data Submission: Streck utilizes the following criterion for the determination of outliers: Any mean that is greater than twice the published assay range or any SD that is greater than the published assay range will be excluded.

Standard Calculations Provided

$$\bar{x} = \frac{\sum x}{n}$$

$$CV = \frac{s}{\bar{x}} \times 100$$

$$SDI = \frac{\bar{x} - \mu}{\sigma}$$

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n - 1}}$$

$$\sigma^2 = \frac{\sum [s_i^2 (n_i - 1) + n_i (\bar{x}_i - \mu)^2]}{N - 1}$$

\bar{x} = Lab Mean
n = Lab Count

s = Lab Standard Deviation
CV = Coefficient of Variance

μ = Group Mean
 σ = Group Standard Deviation

N = Group Count

For a detailed explanation of the STATS® report format or more information regarding QC concepts, please visit Streck online at: <http://www.streck.com>

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Level 1 L1-626

Current Submission - Number of Instruments: 38

**Cumulative Submissions
Total Number of Instruments: 59**

Parameter	Assay Mean	Your Mean	Your N	Your SD	Your CV	Group Mean	Group N	Group SD	Group CV	S.D.I.	Your Mean	Your N	Your SD	Your CV	Group Mean	Group N	Group SD	Group CV	S.D.I.
ESR	7	3	22	0.7	23.3	3	886	2.5	73.4	-0.2	3	22	0.7	23.3	4	2058	2.6	71.4	-0.2

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Level 2 L2-626

Current Submission - Number of Instruments: 38

**Cumulative Submissions
Total Number of Instruments: 59**

Parameter	Assay Mean	Your Mean	Your N	Your SD	Your CV	Group Mean	Group N	Group SD	Group CV	S.D.I.	Your Mean	Your N	Your SD	Your CV	Group Mean	Group N	Group SD	Group CV	S.D.I.
ESR	66	70	22	4.0	5.7	63	897	6.2	9.8	1.2	70	22	4.0	5.7	63	2077	5.8	9.3	1.2

Important Notes

1. This report reflects the same units of measure for each parameter as listed on the product assay.
2. The presence of an asterisk (*) indicates that there are less than 10 unique instruments submitting data for the current month's reports.
3. The presence of dashes (---) indicates there were no values to calculate or report.
4. SDI values greater than 2.0 or less than -2.0 are displayed in white on a dark background.