# TYPICAL ERRORS BY
# DATA PROCESSING
# in Empower CDS

## And How to Solve Them in GMP-Labs

Accurate data processing is essential for compliance, data integrity, and reliable results in pharma QC.

This quick guide covers typical problems and solutions.

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# ERROR 1
# Incorrect Integration

## Issue:

Integration parameters are set incorrectly, resulting in:

- inappropriate baseline positioning
- wrong peak identification, or
- peaks not being integrated despite being present.

## Solution:

- Go to Sample Set → Review.
- Adjust integration parameters in the processing method.
- Save the processing method.
- Reprocess the sample set to create a new result set.

# ERROR 1

# Incorrect Integration

## Goal in GMP:

Integration parameters should ideally work for all chromatograms across the entire sample set to avoid or minimize manual integration.

**ERROR 2**

# Incorrect Peak Naming

**Issue:**

Peaks are named or identified incorrectly, causing errors in further quantitation and reporting.

**Solution:**

- Go to Sample Set → Review.
- Adjust component names or retention times in the processing method.
- Save the processing method.
- Reprocess the sample set to create a new result set.

# ERROR 3

# No or Incorrect Calibration Curve

**Issue:**

Calibration curves are not generated due to:

- mismatches between the processing method and Component Editor,
- no Values entered, or
- incorrect sample types.

# ERROR 3

# No or Incorrect Calibration Curve

## Solution:

- Go to Sample Set → Alter Sample.
- Check if Values are defined in the Component Editor.
- Ensure component names are identical between the Component Editor and the processing method.
- Verify Sample Types in the sample set: standards used for calibration must have "Standard" type (no other samples should have this type unless intended for the curve).
- Save the changes.
- Reprocess the sample set to create a new result set.

# ERROR 4

# No Result Set Generated

## Issue:

Processing the sample set produces no result set.

## Solution 1:

- Go to Sample Set → Alter Sample.
- Check the Processing column: Lines to be processed must be set to "Normal" (not "Don't Process or Report").
- If your sample set includes "Calibrate" and "Quantitate" functions at the end, set those to "Normal" while others remain "Don't Process or Report".
- Reprocess the sample set to create a new result set.

# ERROR 4

# No Result Set Generated

**Solution 2:**

- If processing with a method set, confirm the method set includes the correct processing method.
- Reprocess the sample set to create a new result set.

## GENERAL TIPS
# During Processing

**For all problems above:**

- The sample set must be reprocessed after any adjustments.

- Reprocessing creates a new result set while retaining the original (incorrect) one – essential for traceability and GMP compliance.

- When reprocessing, always add an appropriate comment explaining why the new result set was created.
  This makes data review easier, supports compliance, and strengthens audit readiness.

# Empower Questions?

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> Our start in the lab.

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