

R&D Experiment Data & Metadata Checklist

Dive into the essential data your R&D laboratory needs to capture during experimentation in order to reproduce your experiments every time.

Steps Followed



Who: Who's doing what?

What: What's happening?

Where: Where's it all going down?

When: When is each step happening?

Materials Used



Amount Used: How much of each material?

Batch/Lot: What's the batch or lot number?

Lineage: Where did your materials come from?

Usage History: Record previous uses. Any repeats?

Devices Used



Model Numbers: Identify all your devices

Settings: Capture configurations.

Calibration: Verify accuracy. Is it calibrated?

Service History: When was it last serviced?

Controlled Variables



Timings
Temperatures

Uncontrolled Variables



Lab Temperature
Humidity

Analytical Methods



Outline your approach: What methods are you using to analyze the data?

Raw Data: Keep it raw and real. Capture all the initial data without alterations.