

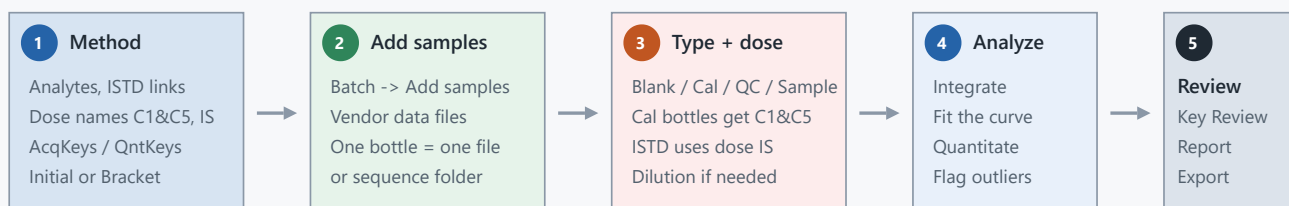
Set up an analysis

Method, bottles, types, Analyze.

An analysis is a **method** plus a **batch of bottles**. The method says what to look for and how to build the curve. The batch is the sequence you actually ran.

Set up an analysis

One method, one batch of bottles, then Analyze. Review and report use the same results.



Method -> Load / Import for a .qtm package or a vendor method. Save Method writes the current method, including calibrated responses.

Sample types come from the method Sample types table (name match, then defaults). Override Type or Dose on the Samples grid when a bottle is special.

Calibration mode lives on the method: Initial calibration = one curve. Bracketing = a curve per cal set.

Five steps: method, add samples, type and dose, analyze, review

Bottle types

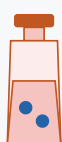
Quanto has four sample types. Cap color in these drawings matches the method defaults (silver blank, coral calibration, blue QC, green sample).

Four bottle types

Cap color follows the method sample type. Blue drops are target analyte. Pink drops are ISTD.



Blank
solvent only



Calibration
known level



QC
check recovery



Sample
unknown amount



ISTD sample
target + spike

- Target analyte □ unknown in samples, known in calibration and QC
- ISTD □ same known spike in every bottle that uses internal standard
- Blank □ matrix or solvent. Used to confirm the target is absent.
- Calibration levels share dose names (C1, C2, C3&). Fill height in these drawings is the dose.

Blank, calibration, QC, sample, and ISTD sample bottles

Type	What is in the bottle	What Quanto does with it
Blank	Solvent or matrix. Optional ISTD spike.	Confirms the target is absent. Not a curve point.
Calibration	Known target amount. Dose name C1 , C2 , â€¦	Builds the curve.
QC	Known target amount, treated as a check.	Read from the curve. Recovery / residual flags.
Sample	Unknown amount.	Read from the curve. Reported concentration.

Blue drops in the drawings are **target analyte**. Pink drops are **ISTD**. A bottle can hold several analytes; each analyte has its own curve.

Build the method

Method â€™ Load / Import

- Open a saved Quanto package (.qtm), or
- Import a vendor method (MassHunter, MassHunter data method, SCIEX WIFF), or
- Append another method as a new **AcqKey** (second instrument or second acquisition method).

Then check these method tables:

Table	Set this
Analytes	Name, type (Target / ISTD / Surrogate), units, extraction window
Quants	QntKey (ion / transition), curve fit, which ISTD Quant to use
Doses	Shared names: C1 â€¦ C5 for curve levels, reserved IS for the ISTD spike
Quant doses	Which levels that Quant actually uses on the curve
Sample types	How file names / metadata become Blank, Calibration, QC, Sample
AcqKeys	One set per imported method or instrument
Calibration mode	Initial calibration (one curve) or Bracketing (a curve per cal set)

A Quant with no ISTD link is **ESTD**. A Quant that points at an ISTD Quant is **ISTD**. You can mix both in one method.

Load the bottles

1. **Batch â€™ Add samples** and pick the data files (or a sequence folder).
2. Each file becomes one sample. Type and dose are matched from the method, then from the file.
3. Fix leftovers on the **Samples** grid: **Type**, **Dose**, **Dilution**, **AcqKey**, **SmpKey**.

Calibration bottles must have a dose name that exists on the analyte. Samples and blanks usually have no curve dose; ISTD bottles still use dose **IS**.

Analyze

Analyze integrates, fits each Quantâ€™s curve, quantitates, and flags. After that:

- Open the calibration plot for the current result.
- Clear **Use** on a bad cal point and **Analyze** again.
- Open **Key Review** when the same sample exists on several AcqKeys, QntKeys, or dilutions.

Which guide next

You are doing	Read
One instrument, no ISTD, C1â€™C5 then unknowns	ESTD initial calibration
ISTD spiked in every bottle	ISTD initial calibration
Cal, samples, cal, samples	Bracket calibration
Two instruments or several ions per analyte	Key Review
Re-run only some levels in later batches	Multi-batch dose responses
Spreadsheets, vendor files, Excel / PDF	Reports, import, and export

Grid gestures (fill, sort, freeze) are in [Grids](#).