

Result limits & flags

RecPct / DevPct / RecFlag, MinCurveR2, response and qualifier limits.

Limits tell Quanto when a result or curve point is outside what you accept. After Analyze, flags show up on results and in [Method Validation](#).

Recovery on known doses

When a bottle has a **known dose** (Calibration, QC, and any other bottle you treat as known):

Field	Formula / meaning
RecPct	$100 \times \text{calculated concentration} / \text{dose}$
DevPct	$\text{RecPct} - 100$
RecFlag	Pass/fail against the recovery limits you set

There is no separate Spike sample type in the bottle list — put the known amount on **Dose** (for standard addition, use the **spike increment**). See [Set up an analysis](#) and [CalGroup & standard addition](#).

ISTD and ESTD curves both produce concentrations that feed RecPct the same way once a dose is present.

Curve and response limits

Limit	Typical use
MinCurveR2	Minimum acceptable coefficient of determination for the fit
MinRsp / MaxRsp	Response (area or height) window for a peak
MinQValue	Minimum qualifier / confirmation value
Qualifier counts	How many qualifiers must pass
MinCoElution	Minimum co-elution / overlap score when the method uses it
AboveCurveMaximum	Flag when the result sits above the top calibrator
PassFailFlag	Overall pass/fail roll-up for the result

Set these on the method / Quant tables before Analyze. Names match the columns you see in Quanto; leave a limit empty when you do not want that check.

Where flags appear

- **Results** grid — per sample / Quant

- **Method Validation** pane — method-wide scan
- **Reports** — include flag / RecPct columns with Q. functions when your workbook needs them ([Report formulas](#))

Practical tips

1. Start with recovery limits on QC (and maybe Calibration) before tightening R^2 and response windows.
2. After clearing a bad cal point (**Use** off), Analyze again so RecPct and curve flags refresh.
3. Blank offset and blank concentration change concentration — re-check RecPct afterward ([Blank offset](#), [Blank concentration](#)).
4. For ISTD work, also watch ISTD response limits so a dead ISTD does not silently pass targets ([ISTD](#)).

Related

- [Method design](#)
- [Method Validation](#)
- [ESTD / ISTD](#)