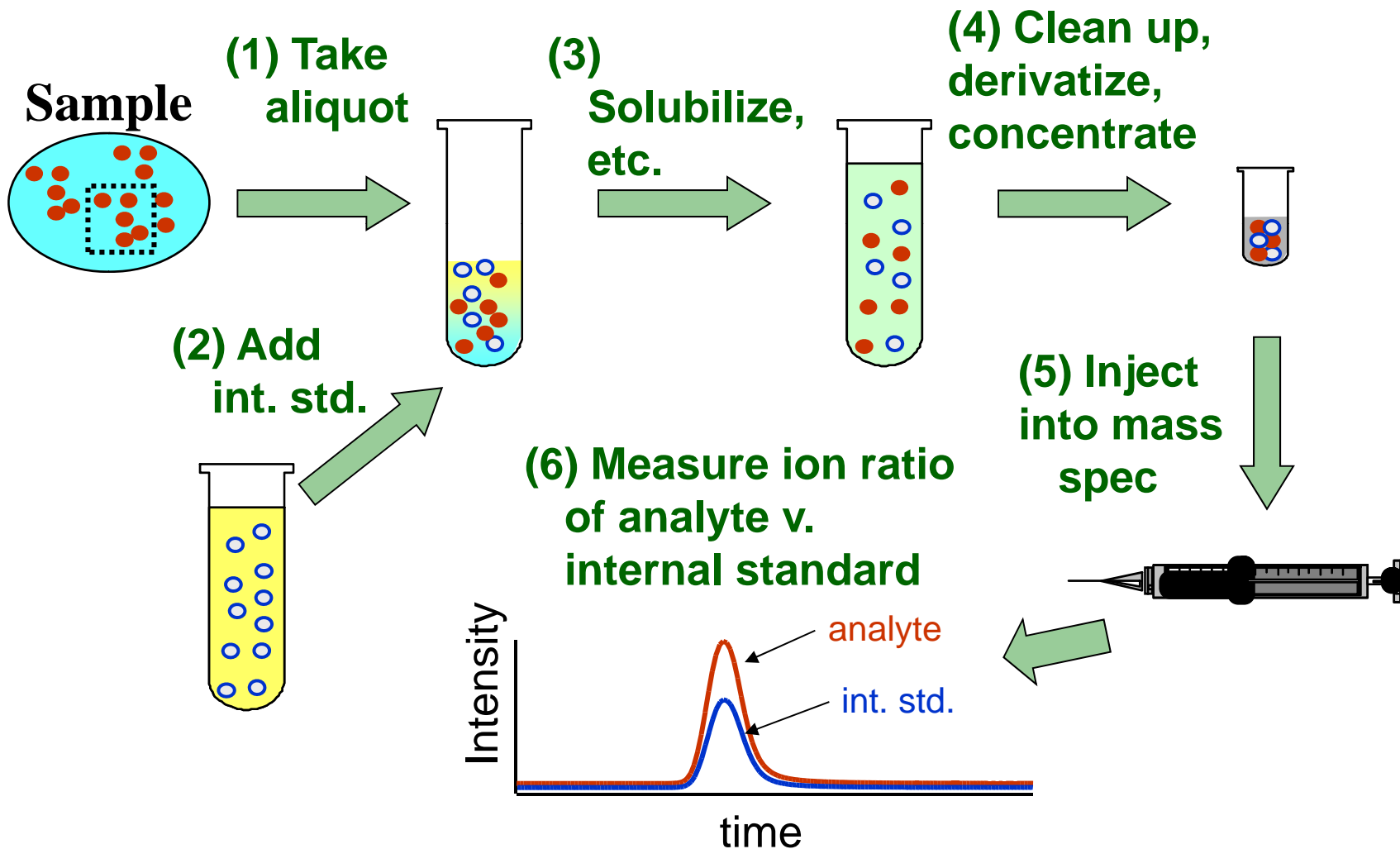
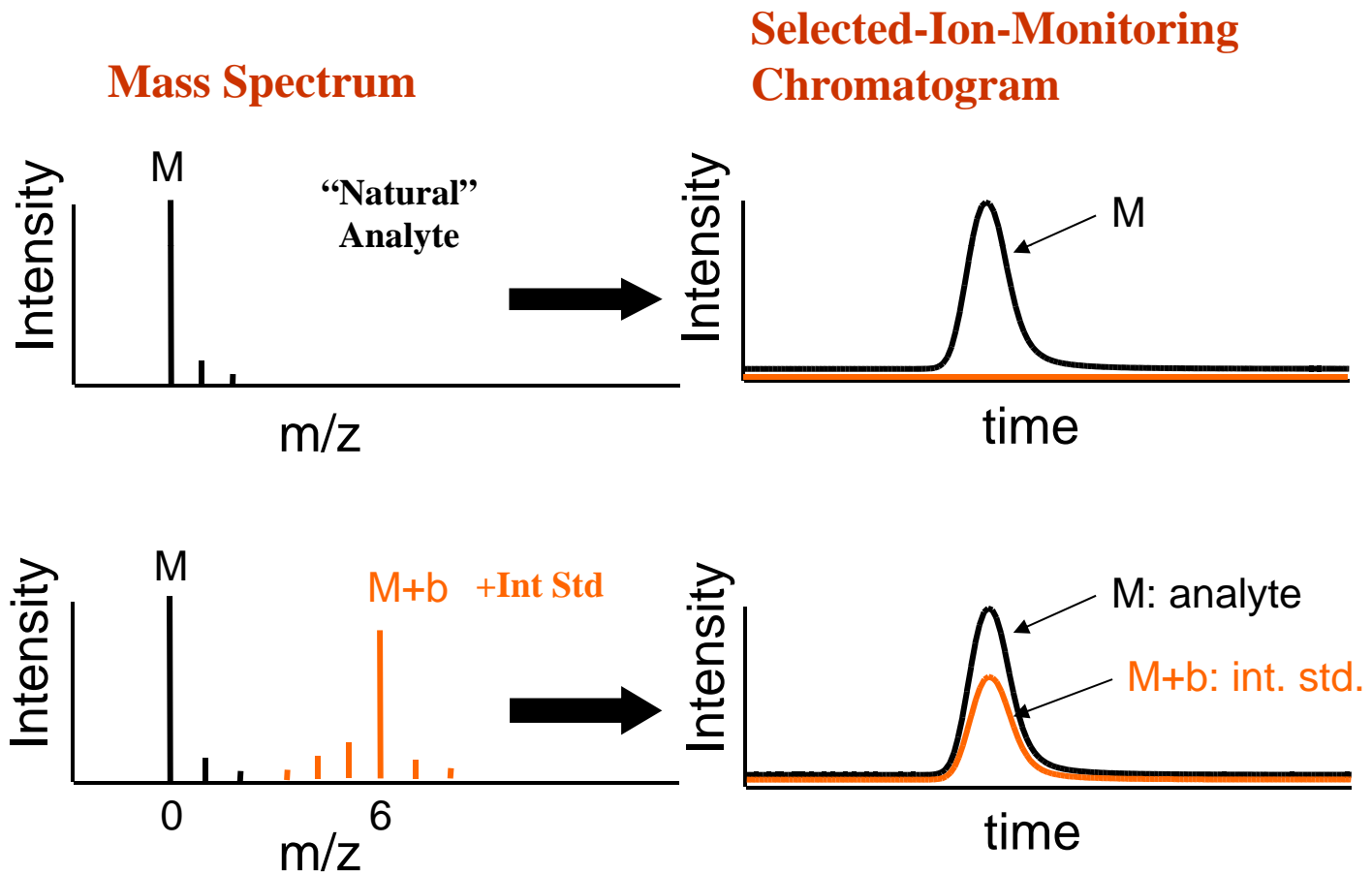


Steps in a Typical Mass Spec Quantitative Analysis

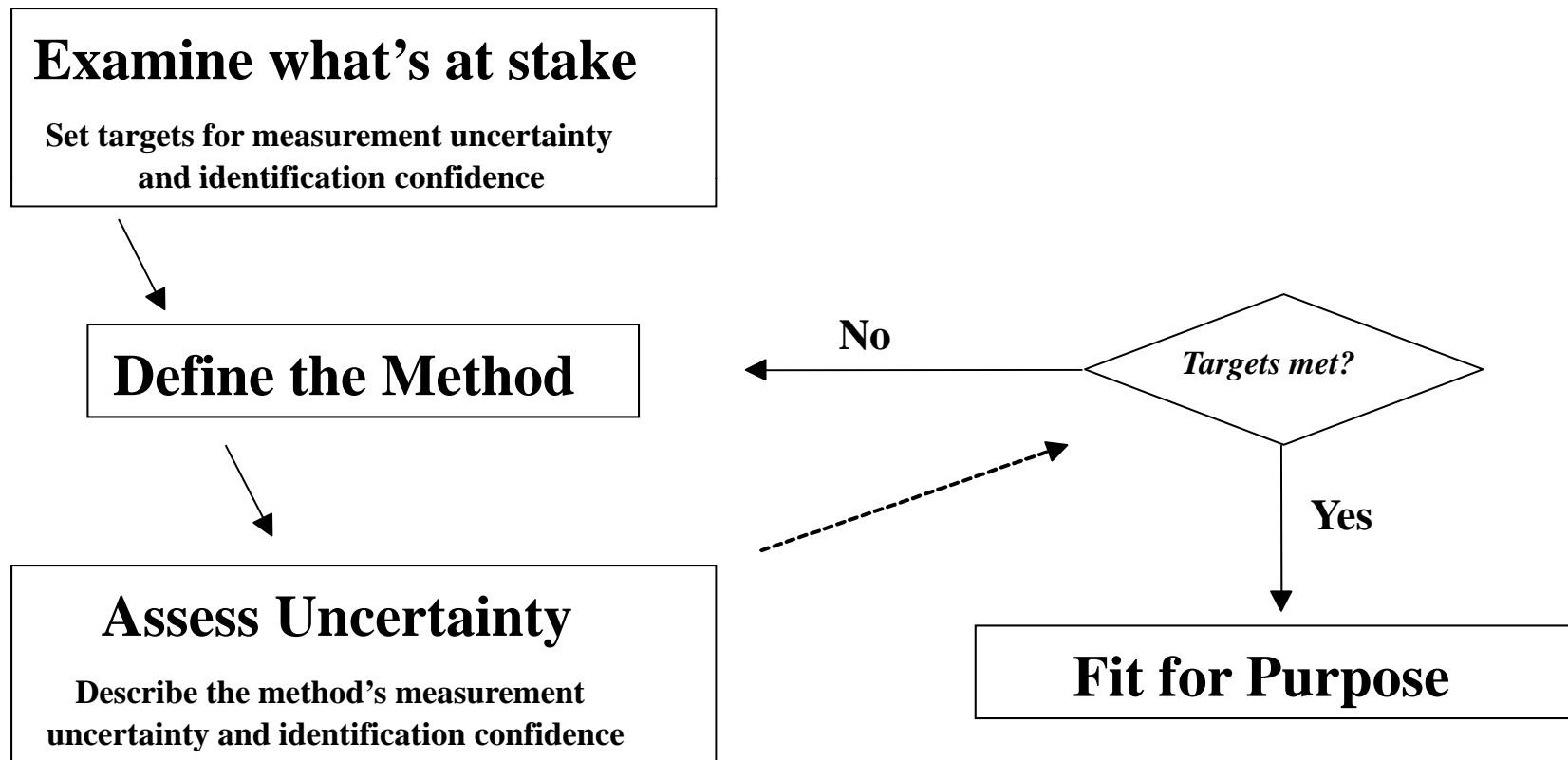


Effect of Adding An Isotopic Internal Standard

Case A: No Isotopic Overlap

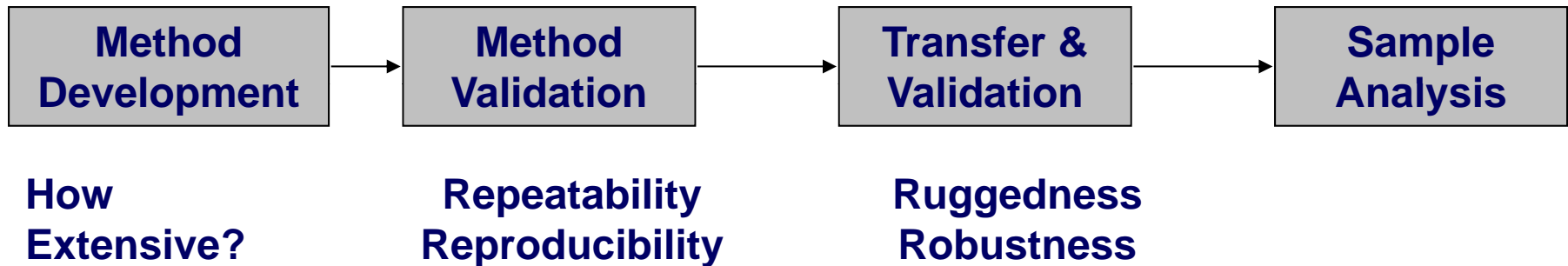


Recommended Process for Achieving Fitness for Purpose



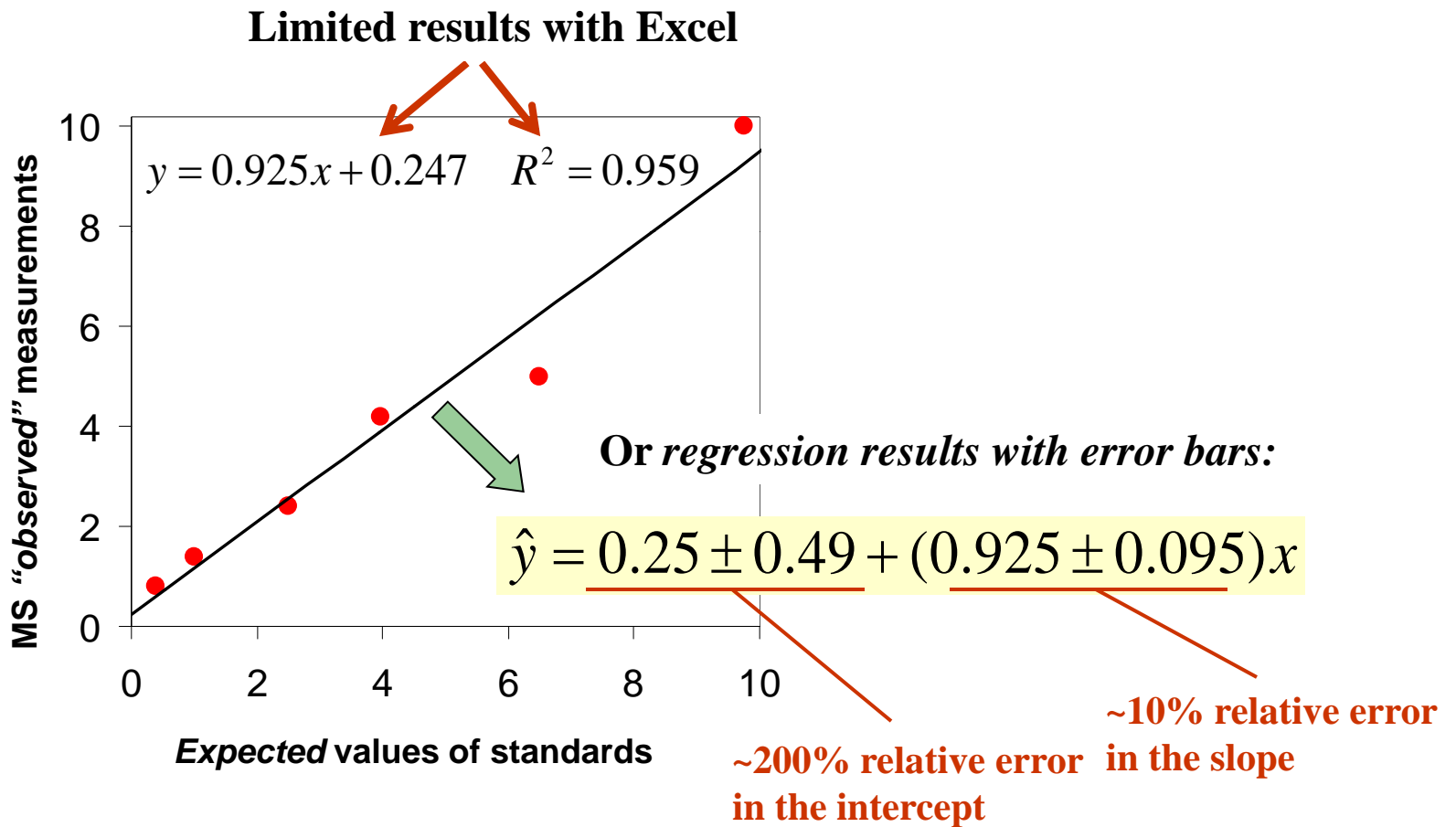
Factors That Predict Method Transfer Success

Assumption: “Method worked in our lab so it should work in others”



- **How rugged, robust and reliable is the method to begin with?**

How Much Information Do You Want With Your Regression Line?



Method Validation for Endogenous Compounds

- ◆ We normally make a **standard curve** of analyte versus internal standard and measure the MS ion ratio
- ◆ A linear relationship validates the method
- ◆ But, what about in a real matrix?
- ◆ Prepare a **2nd standard curve by adding known amounts to a real matrix** to validate linearity
 - Slopes of the 2 curves should be the same

