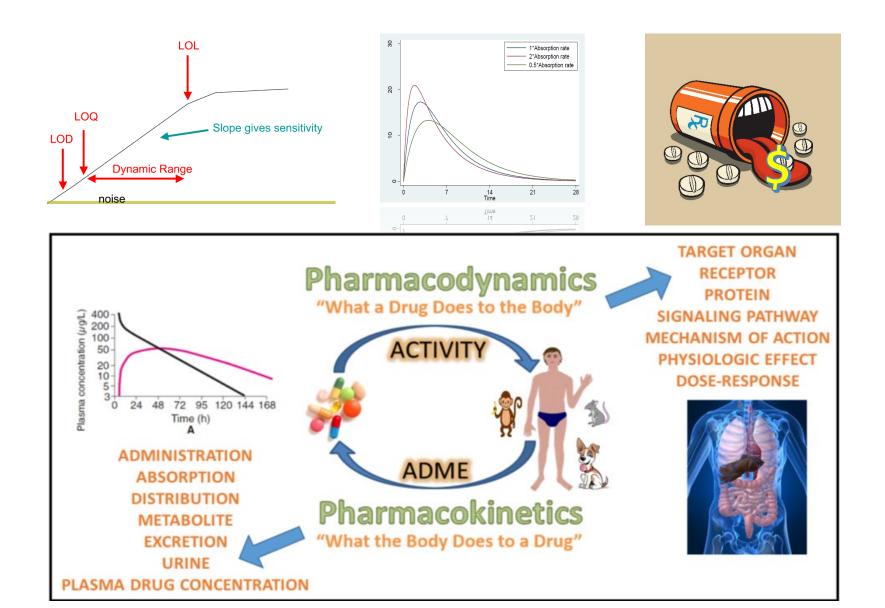
(Former Introduction to GLP Regulations and Bioanalytical Method Validation by LC-MS/MS)



(Former Introduction to GLP Regulations and Bioanalytical Method Validation by LC-MS/MS)

Validation batch design for **A&P runs**

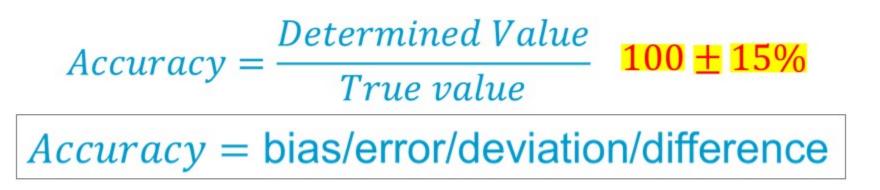
Prepare 3 runs in different days

Calibration Standards		Quality Control Samples		Other Validation Samples	
Name	Replicate	Name	Replicate	Name	Replicate
Level 1	1	LLOQ	6	Pooled blank plasma	1
Level 2	1	QC1	6	Zero standard	1
Level 3	1	QC2	6	System verification sample	1
Level 4	1	QC3	6		
Level 5	1	QC4	6		
Level 6	1				
Level 7	1		C4 /	9 4 1 1 00	
Level 8	1	Q	U1 S	3 × LLOC	l
Level 9	1				
Level 10	1				

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Accuracy and precision expressions

True = Actual = Theoretical = Nominal value

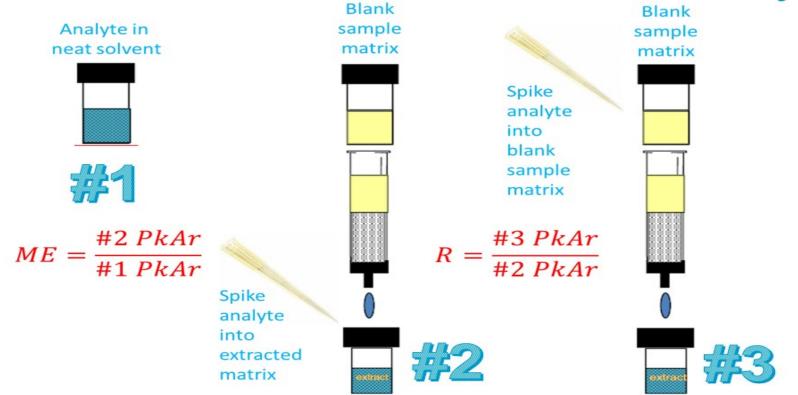


 $\frac{Determined \ Value - True \ Value}{True \ value} \times 100 \quad \frac{\pm 15\%}{}$

Precision: RSD = CV (coefficient of variation)

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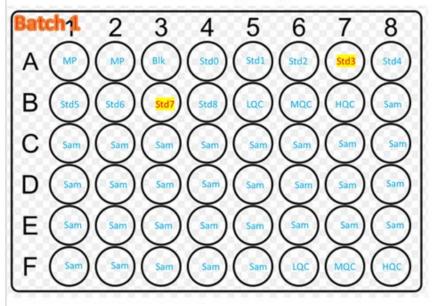
Matrix effect and extraction recovery

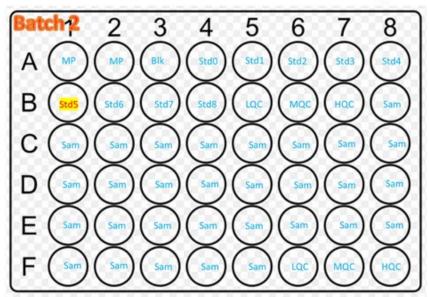


Stable isotopically labeled IS can compensate for extraction recovery and matrix effects

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Case study (one run = Batch 1 + Batch 2)

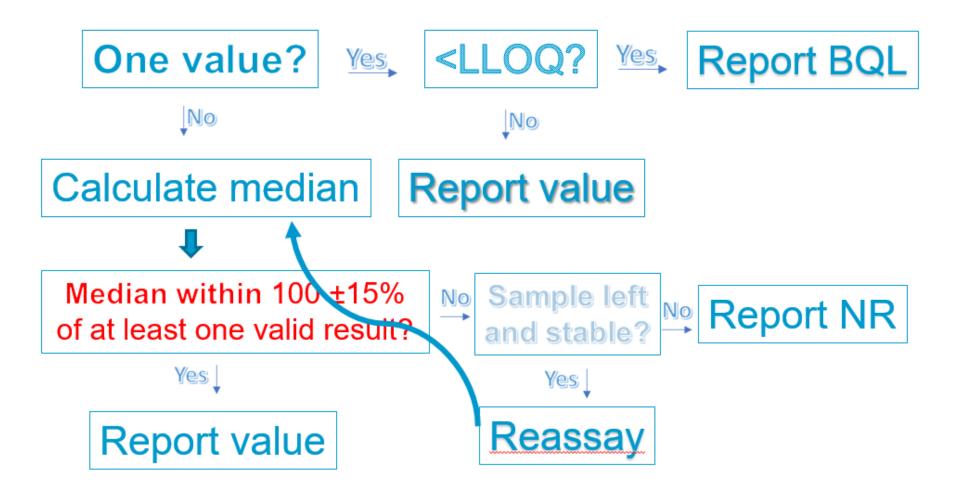




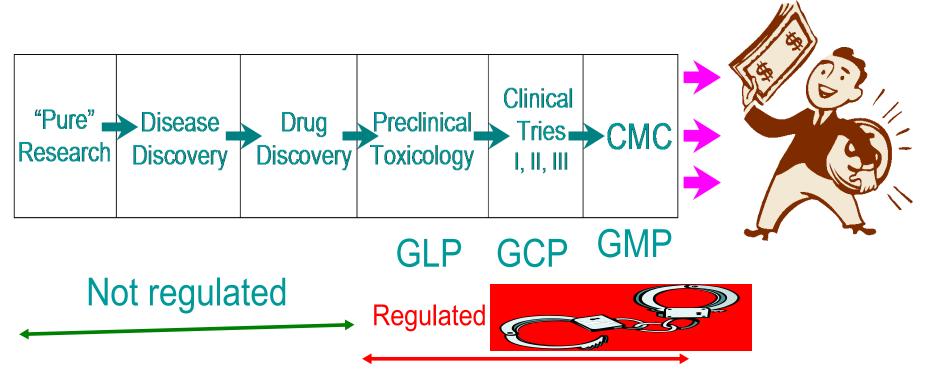
Based on 2018 BMV acceptance 75% and a minimum of six standards (6/8 = 75%) Both batches passed – each batch was processed individually

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Decision tree for reporting re-assay results



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Study basedProcess basedGood Regulatory Practices (GXP)Good Regulatory Practices (GXP)