Calibrated Range—Minimum and Maximum Concentrations

PATsmart™ REBEL® System

Support Document

As with all analytical assays, it is vital to ensure that analyte concentrations are within the appropriate dynamic range.

Analyte concentrations below or above the calibration range will exhibit decreased reproducibility and accuracy.

SMA V2 Analytes	Abbreviation	Lower Limit of Quantitation (LLOQ)	Upper Limit of Quantitation (ULOQ)
Alanyl-Glutamine	AQ	5 µM (0.005 mM)	100 µM (0.100 mM)
Alanine	Ala		
Arginine	Arg		
Asparagine	Asn		
Aspartic acid	Asp		
Betaine	Betaine		
Choline	Choline		
Citrulline	Cit		
Glycine	Gly		
Histidine	His		
Hydroxyproline	Hyp		
Isoleucine	Ile		
Leucine	Leu		
Lysine	Lys		
1-Methylhistidine	1MH		
Methionine	Met		
Phenylalanine	Phe		
Proline	Pro		
Serine	Ser		
Threonine	Thr		
Tryptophan	Trp		
Tyrosine	Tyr		
Valine	Val		
Glutamine	Gln	5 µM (0.005 mM)	75 µM (0.075 mM)
Glutamic acid	Glu		
Cystine	Cystine	5 µM (0.005 mM)	50 µM (0.050 mM)
β-Alanine	βAla	5 µM (0.005 mM)	25 µM (0.025 mM)
Thiamine	B1		
Pyridoxine	B6-OH		
Pyridoxal	B6-Oxo		
Nicotinamide	NAM		
β-Aminobutyric acid	GABA		
Sarcosine	Sarcosine		

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- There are no hard specifications for minimum and maximum values which will be reported.
- If an analyte is not detected, **ND**, it may be above or below the dynamic range of the system. Refer to the REBEL Rangefinding article for more information: this Range Finding Experiment Tool (RFE) provides automated assessment of optimal dilution factors for the most inclusive analysis.
- If analyte is detected and above the dynamic range, >LOD, dilute more and rerun.
- If values outside the calibrated range are reported, we recommend looking at the relative standard error (RSE) to determine if they are acceptable.
- While analytes can be quantified beyond these upper and lower bounds of the calibration range, results will be more accurate and reproducible if they are detected within the bounds of the calibrated range.

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