

SUPPLEMENTARY MATERIAL

Table 1. Formuls of parameters evaluated in the validation of this methodology according to ANVISA (2017) and INMETRO (2020).

Parameters	Equations
Limits of Quantification	$LOQ = \frac{10 \times \sigma}{a}$ <p>Where, σ is the standard deviation of the replicates of the lowest point of the curves and a the slope of the analytical curve.</p>
Limits of Detection	$LOD = \frac{3,3 \times \sigma}{a}$ <p>In which, σ is the standard deviation of the replicates of the lowest point of the curves and a the slope of the analytical curve.</p>
Linearity	$G < = \left(\frac{C_m - C_{<}}{\sigma} \right)$ $G > = \left(\frac{C_m - C_{>}}{\sigma} \right)$ <p>Where, C_m corresponds to the average absorbance value, $C_{<}$ is the lowest measured value, $C_{>}$ is the largest measured value, σ is the standard deviation of the replicates, while $G_{<}$ and $G_{>}$ are respectively the lowest and highest measured absorbance value.</p>
Precision	$CV (\%) = \frac{\sigma}{\bar{c}}$ <p>In which, σ = absolute standard deviation estimate value, and \bar{c} represents the average concentration of the analyte.</p>
Accuracy	$Recovery (\%) = \frac{\bar{c}}{c_{theoretical}} \times 100$ <p>Where, \bar{c} is the concentration obtained from the analytical curve and $C_{theoretical}$ is the corresponding theoretical concentration</p>

Table 2. Validation of the methodology using the Grubbs test (Grubbs; Beck, 1972)

Concentration mg·L ⁻¹	UV/Vis	
	G<	G>
1	1.78	1.71
2	1.80	1.57
3	1.34	1.96
5	1.28	1.99
7	1.15	1.24
10	1.90	1.53
12	1.13	1.68
15	1.16	1.03
20	1.35	1.82