Supporting Information

J. Chem. Metrol. **19:2 (2025) 223-235**

A New RP-HPLC method for stability indicating assay of pazopanib hydrochloride in tablet dosage form: method development, validation, and degradation kinetics

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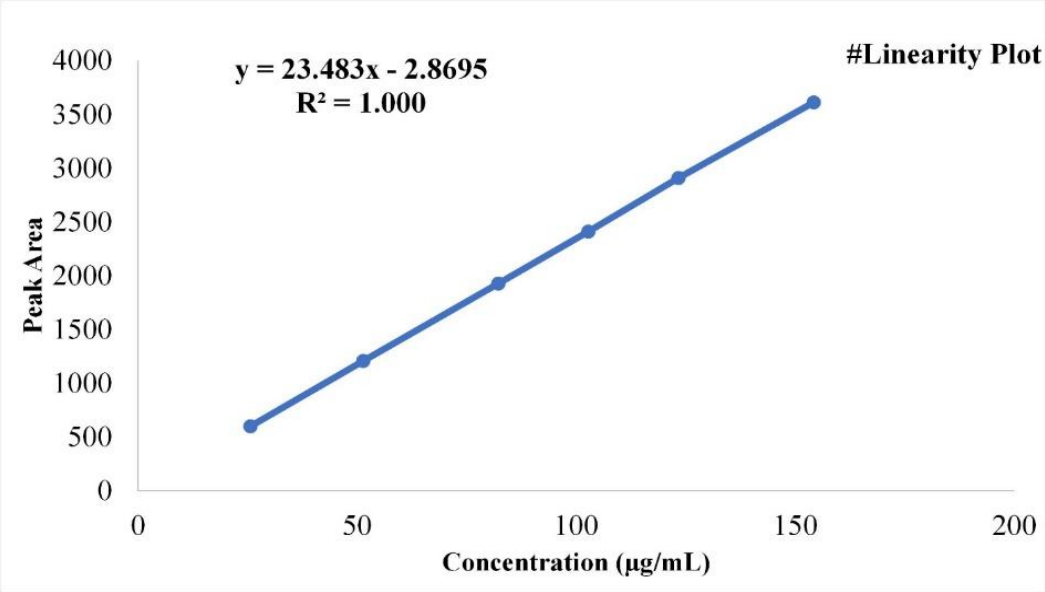

Figure S1: Linearity Plot

Table S1: Results of the specificity / forced degradation study

Degradation condition		Total % Impurities*	Total % Assay	% Mass Balance*
	Sample as such	0.09	100.2	-
Acid degradation	5mL/ 5 N Hydrochloric acid solution/ 90°C / 3 hours	0.13	99.2	99.3
Alkaline degradation	5mL/ 1 N Sodium hydroxide solution/ 90°C / 3 hours	0.27	97.4	97.7
Peroxide degradation	10mL/ 30% Hydrogen peroxide solution/ 90°C / 3 hours	11.3	85.6	96.9
Thermal degradation	Keep the flask in a hot air oven at 100°C for 5 days	0.1	98.9	99.0
Humidity degradation	Keep the flask in a humidity chamber at 50°C/80%RH for 5 days	1.1	98.4	98.5
Photolytic degradation	Keep the flask in a Photo stability chamber for 2968040 Lux hours, 103959 watt-hours/ square meters	0.07	99.1	99.2

* Data reported from our previous study for related substances [20]

Note: Forced degradation studies were conducted using a single sample preparation to ensure accurate mass balance determination for both assay and related-substances analyses.

Table S2: Linearity Data

Linearity Level	Volume of stock sol. used (mL)	Volume diluted to (mL)	Concentration (ppm)	Peak area	Standard Deviation (SD)
25%	2.5	50.0	25.7050	598.612	1.668
50%	5.0	50.0	51.4100	1205.841	2.730
80%	4.0	25.0	82.2560	1926.579	1.926
100%	5.0	25.0	102.8201	2409.473	2.548
120%	6.0	25.0	123.3841	2907.539	1.396
150%	7.5	25.0	154.2301	3611.099	0.942

Table S3: Linearity statistical information

Statistical Information	
Correlation coefficient	1.0000
R^2	1.0000
Y-Intercept	-2.8695
Y - intercept bias at 100%	-0.12
Slope	23.4832