

REVIEWER'S REPORT

Manuscript No.:IJAR-53039

Date: July 28 2025

Title: ICH Q2(R1)-Guided Validation of a Normal Phase HPLC/UV Method for Thiram in Technical WP Formulations Complying with SANCO QC Standards,

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		X		
Techn. Quality			X	
Clarity			X	
Significance			X	

Reviewer Name: Dr Lakhdar Guerine
2025

Date: July 28

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

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Detailed Reviewer's Report

REVIEWER'S REPORT

The article describes the development and validation of a normal-phase HPLC/UV analytical method for quantifying thiram in technical WP 80% formulations. The method follows ICH Q2(R1) guidelines and SANCO residue requirements. A silica column and a hexane/isopropanol mobile phase were optimized for sharp separation. Validation parameters include specificity, linearity ($R^2 = 0.998$), precision ($RSD \leq 0.07\%$), accuracy (recoveries $\sim 99.7\text{--}101.6\%$), LOD (6.4 mg/L), and LOQ (12.8 mg/L). Robustness was evaluated through small variations in temperature and flow rate. The method complies with regulatory thresholds. It is concluded to be suitable for routine analysis of thiram residues.

Strengths

- 1) Clearly validated according to ICH Q2(R1) and SANCO guidelines.
- 2) Strong quantitative results: high linearity and low RSD.
- 3) Practical application for a commonly used WP formulation.
- 4) Sufficient experimental details for reproducibility.

Weaknesses

- a) Numerous typographical and grammatical errors ("abstarct", "charateristic").
- b) Writing lacks fluency and academic structure.
- c) Relatively high LOD/LOQ values (in mg/L), may be limiting for trace-level matrices.
- d) Weak reference section, lacks recent or peer-reviewed sources.

Recommendation : Major revision required. The manuscript needs substantial linguistic and editorial revision