

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai

Approved by Pharmacy Council of India, New Delhi.

Coimbatore -641035

COURSE NAME : PHARMACOGNOSY

D.PHARM / I YEAR

TOPIC 10: EVALUATION OF CRUDE DRUGS

DESIGN THINKING STAGES IN CLASSIFICATION

Empathize: Understand the users — in this case, students, pharmacists, or researchers who use the alphabetical classification system.

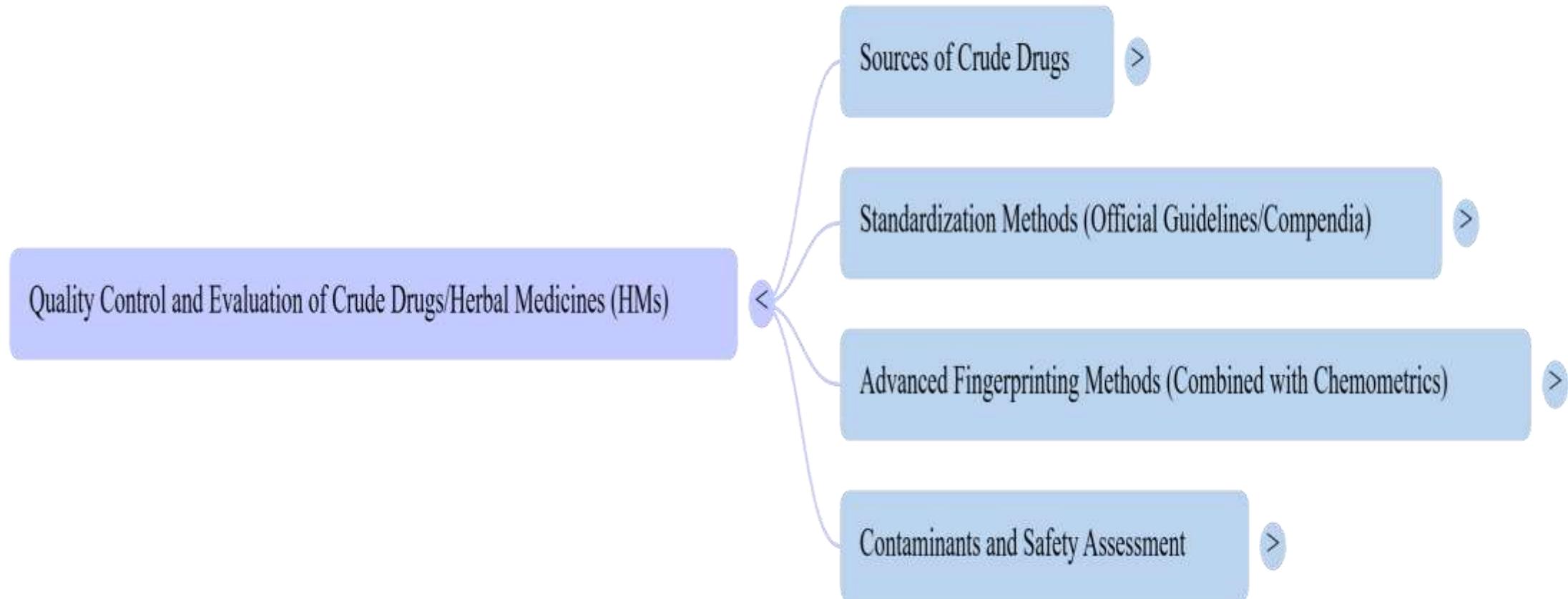
Define: Clearly define the problem based on the insights from the empathize stage.

Ideate: Generate possible solutions or improvements.

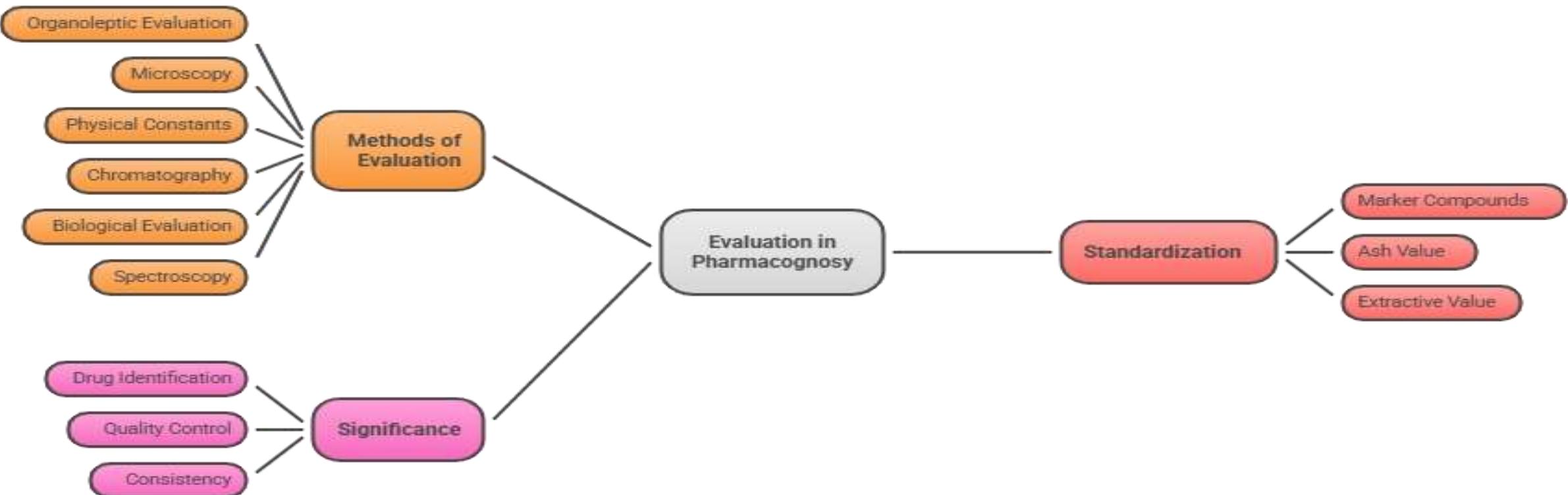
Prototype: Create a tangible version of your solution

Test: Evaluate the prototype with real users.

MINDMAP



Evaluation in Pharmacognosy: Methods and Significance

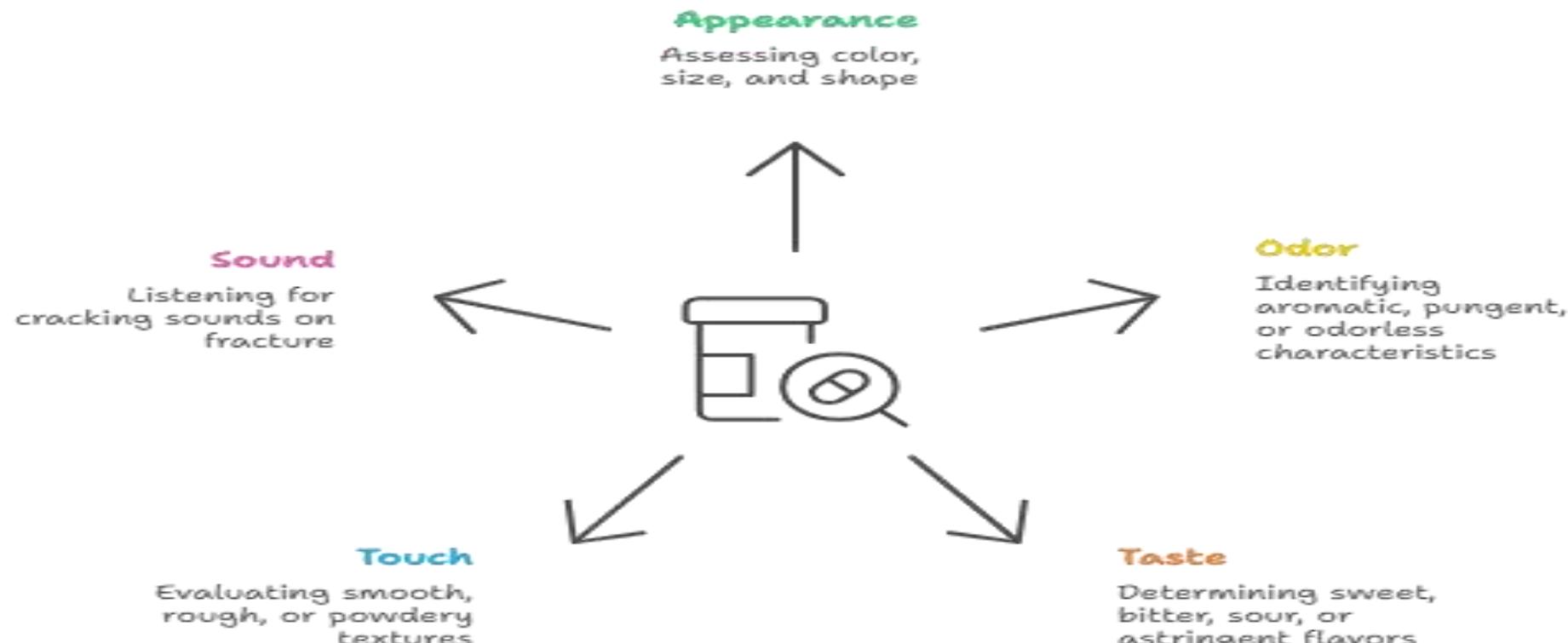


Unveiling the Dimensions of Crude Drug Evaluation



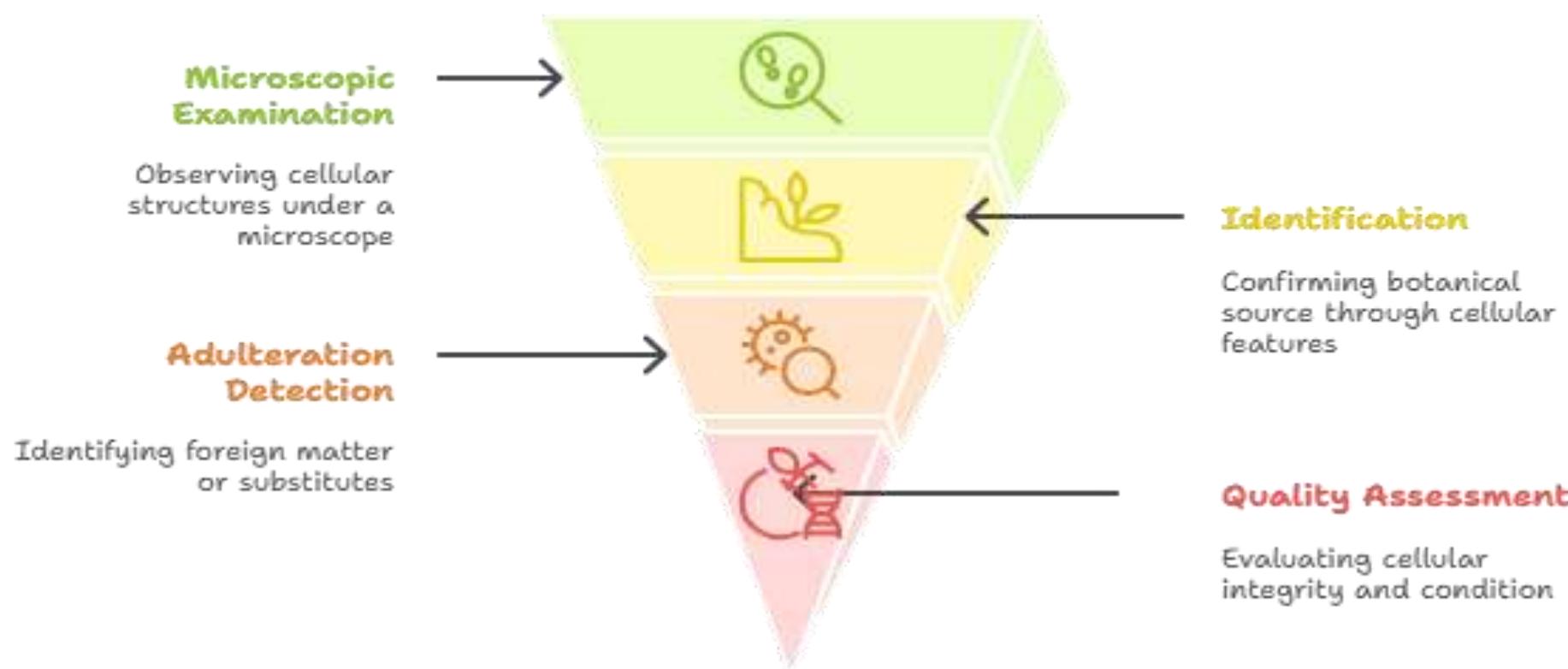
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Organoleptic Evaluation of Drugs



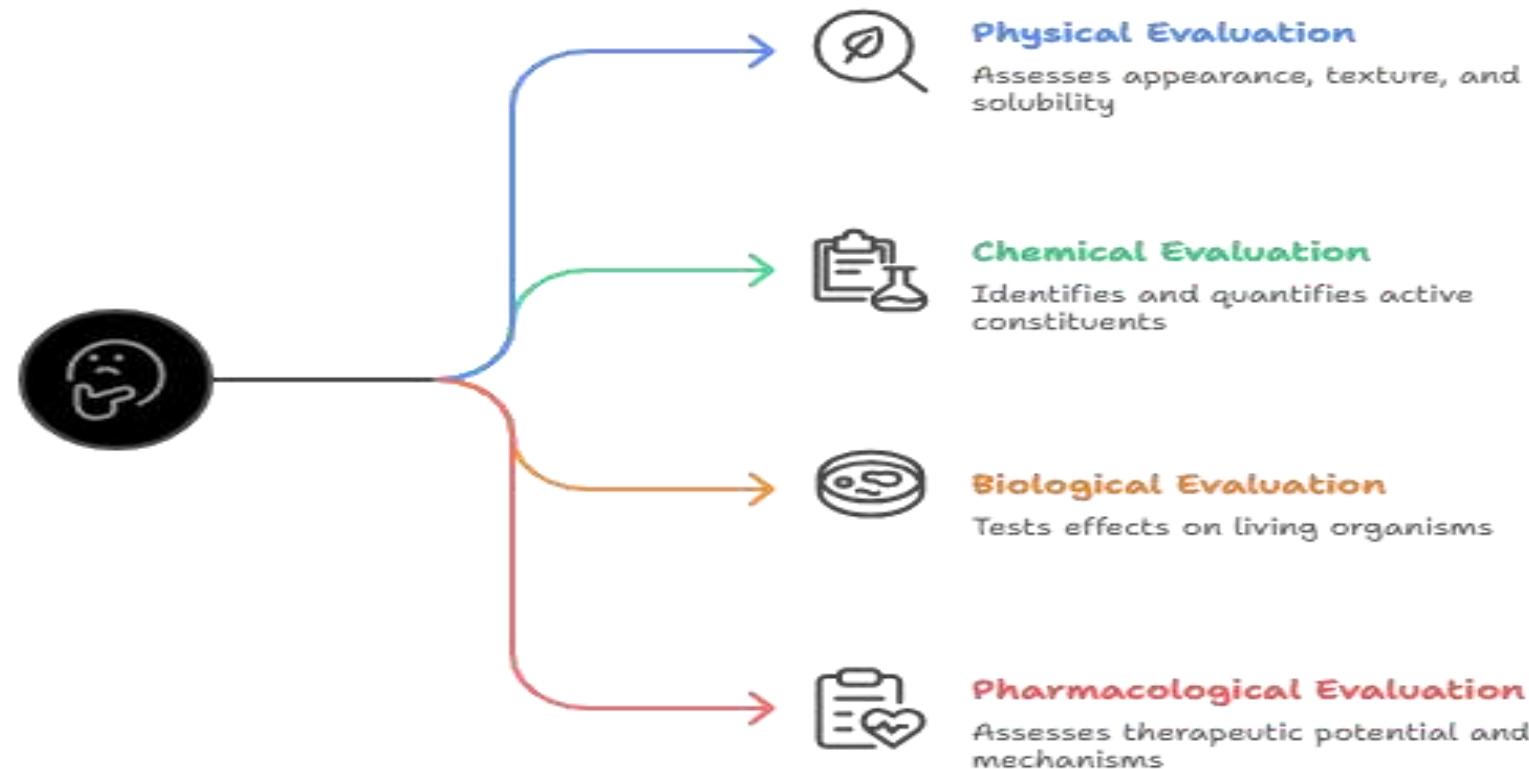
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Microscopic Drug Evaluation Process



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Which method should be used to evaluate crude drugs?



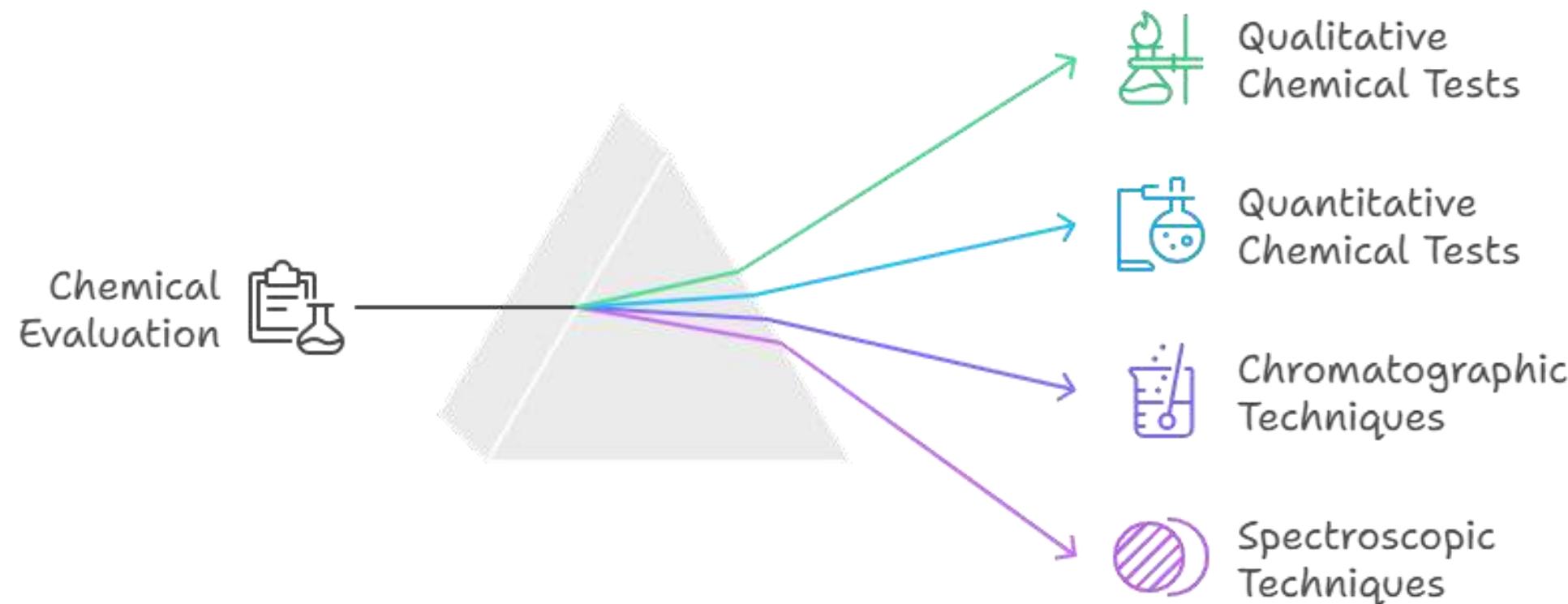
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Comprehensive Drug Evaluation



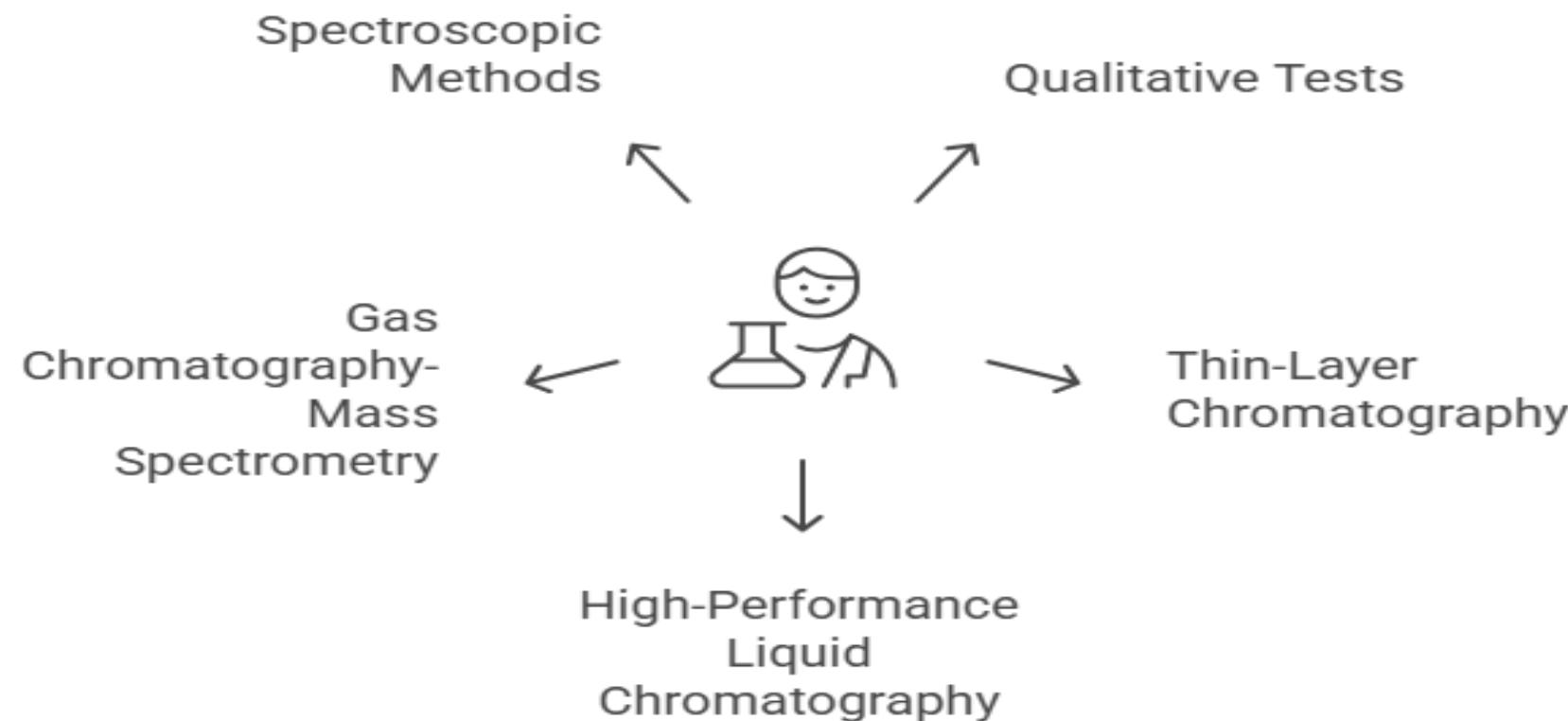
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Unveiling Crude Drug Composition Through Chemical Evaluation



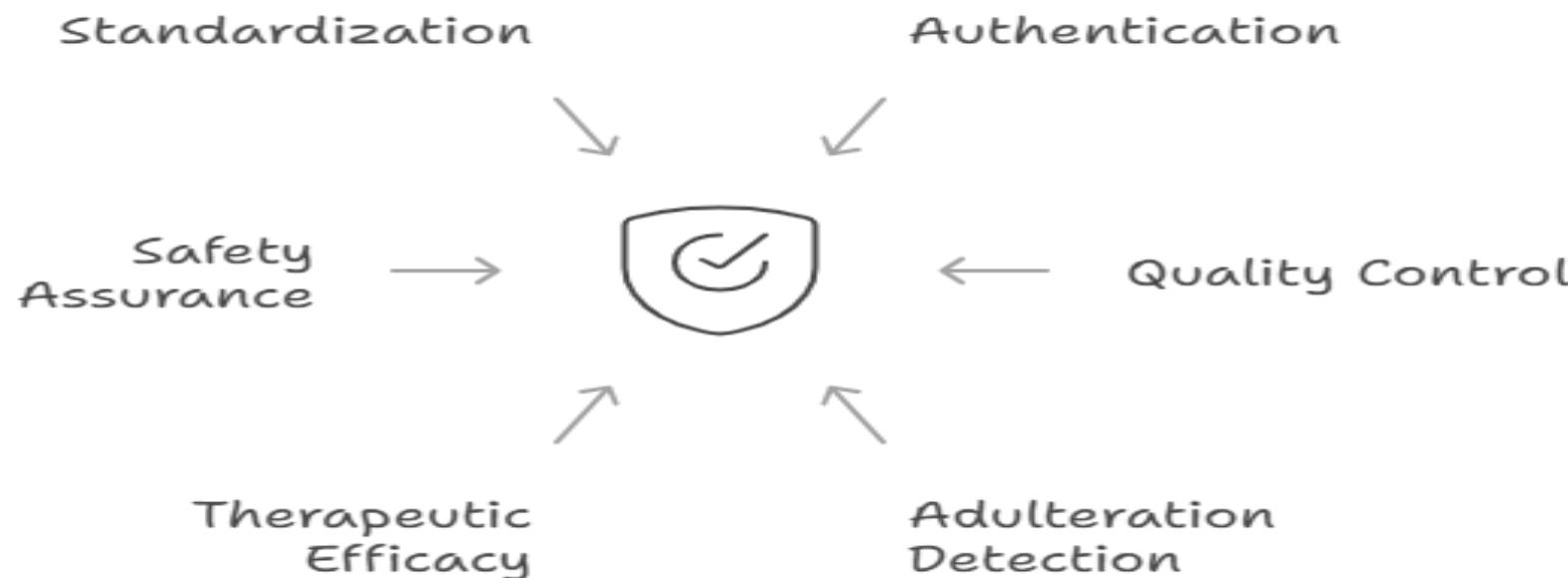
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Chemical Evaluation Techniques



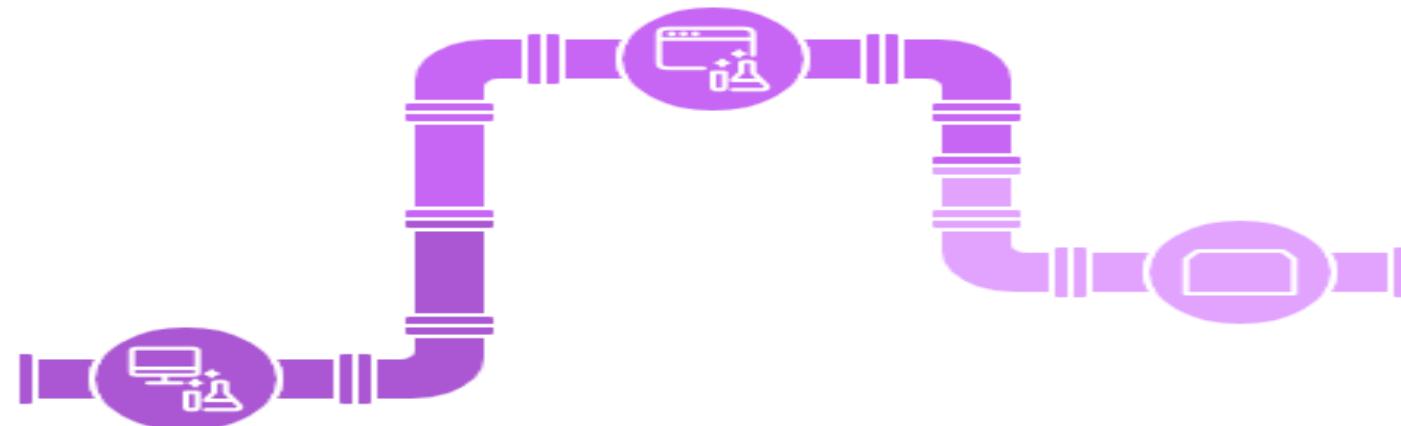
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Factors Ensuring Crude Drug Quality and Safety



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Standardization Process in Pharmacognosy



01

Selection of Markers

Identifying key chemical constituents for quality assessment

02

Development of Analytical Methods

Creating and validating methods to quantify markers

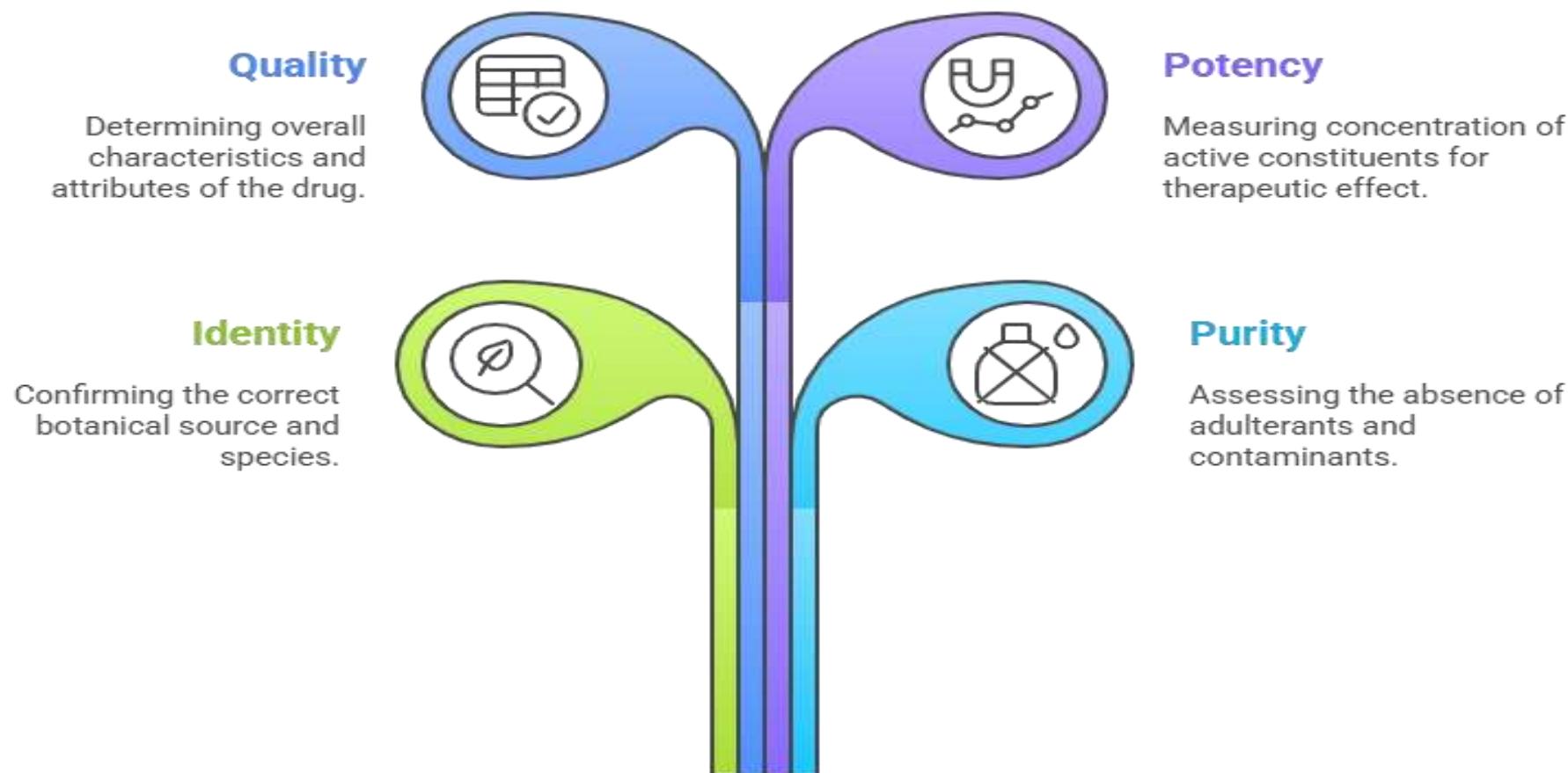
03

Establishment of Specifications

Setting acceptable limits for markers and quality parameters

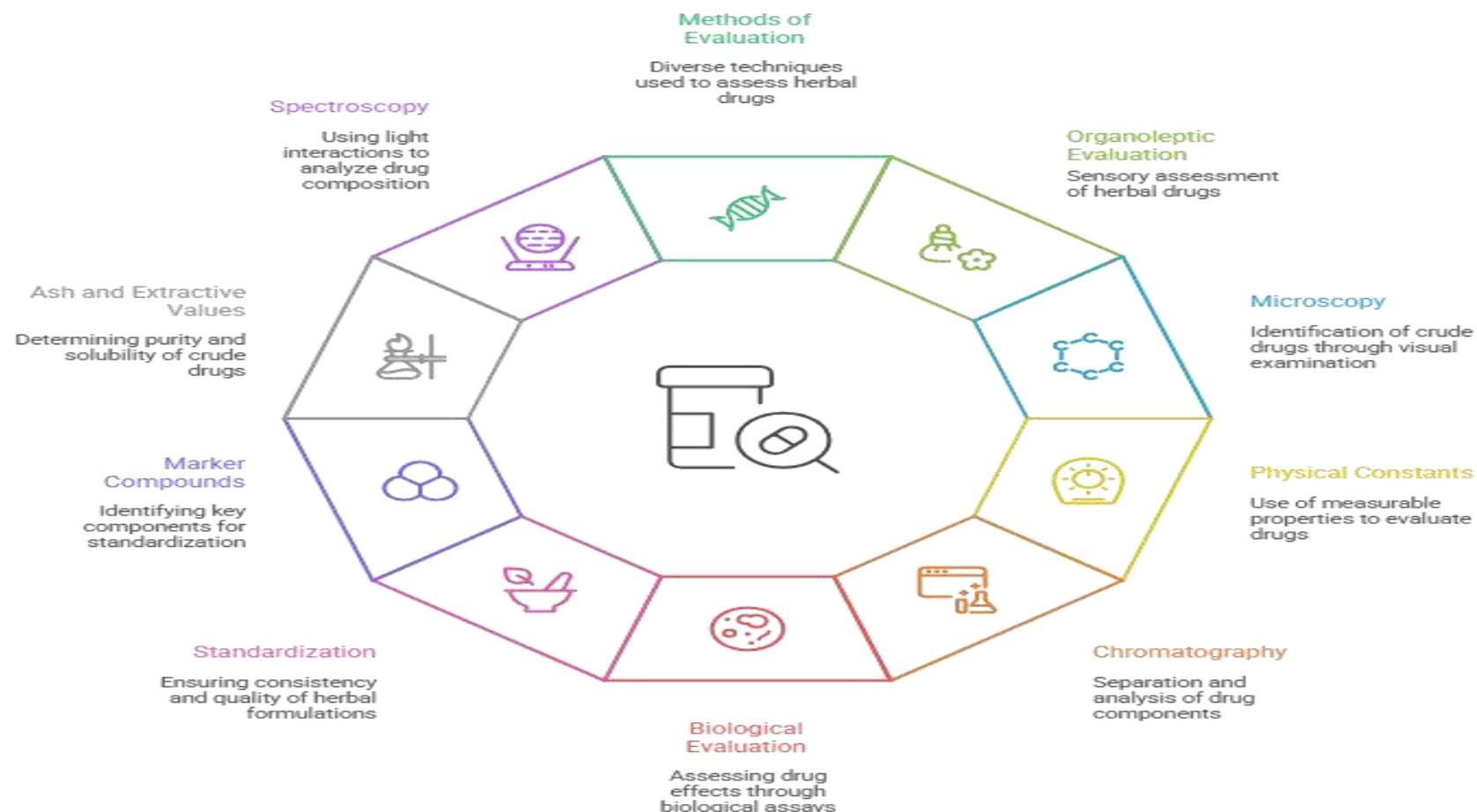
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Unveiling the Dimensions of Pharmacognosy Evaluation



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Foundations of Pharmacognosy Evaluation



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ASSESSMENT

Which biological evaluation method should be used?

In Vitro Assays

Suitable for assessing pharmacological activity at the cellular or enzymatic level in a controlled laboratory setting.



Microbiological Assays

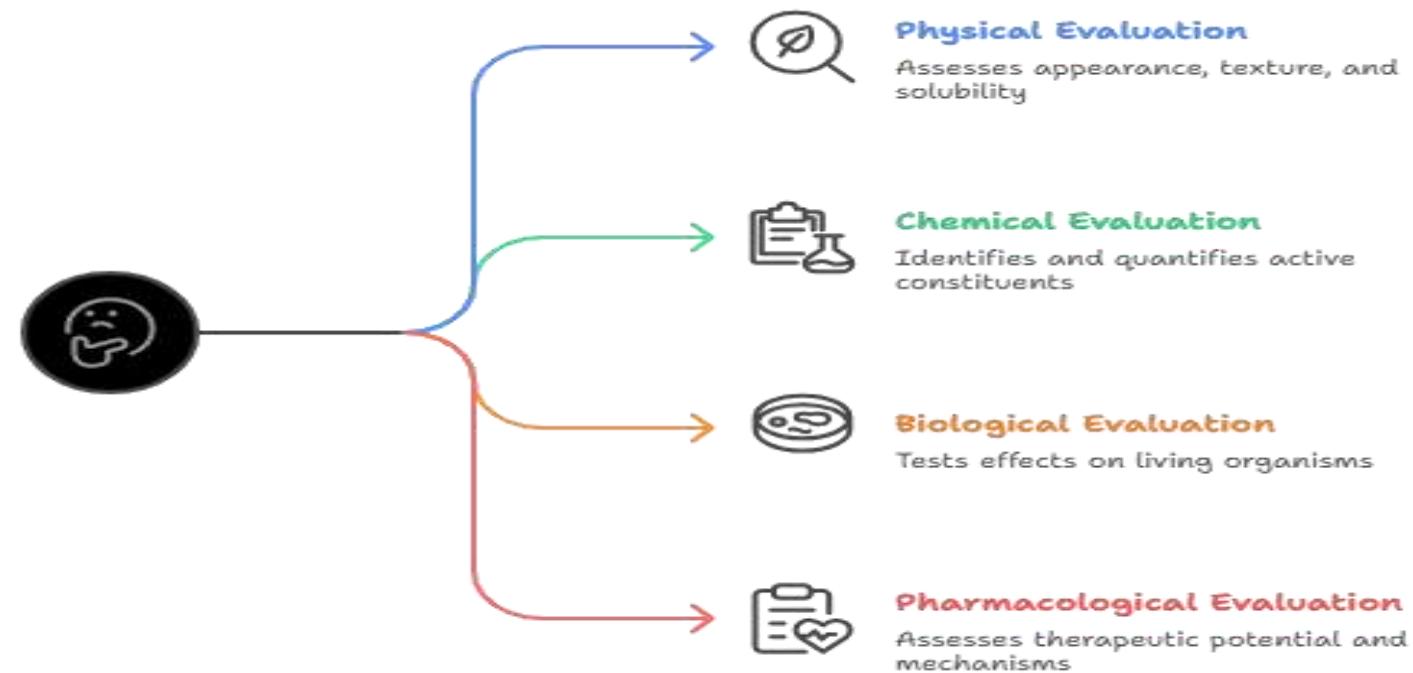
Used to determine the antimicrobial activity of the drug against various microorganisms.

In Vivo Assays

Essential for evaluating pharmacological activity and toxicity in living organisms, providing a comprehensive understanding of drug effects.

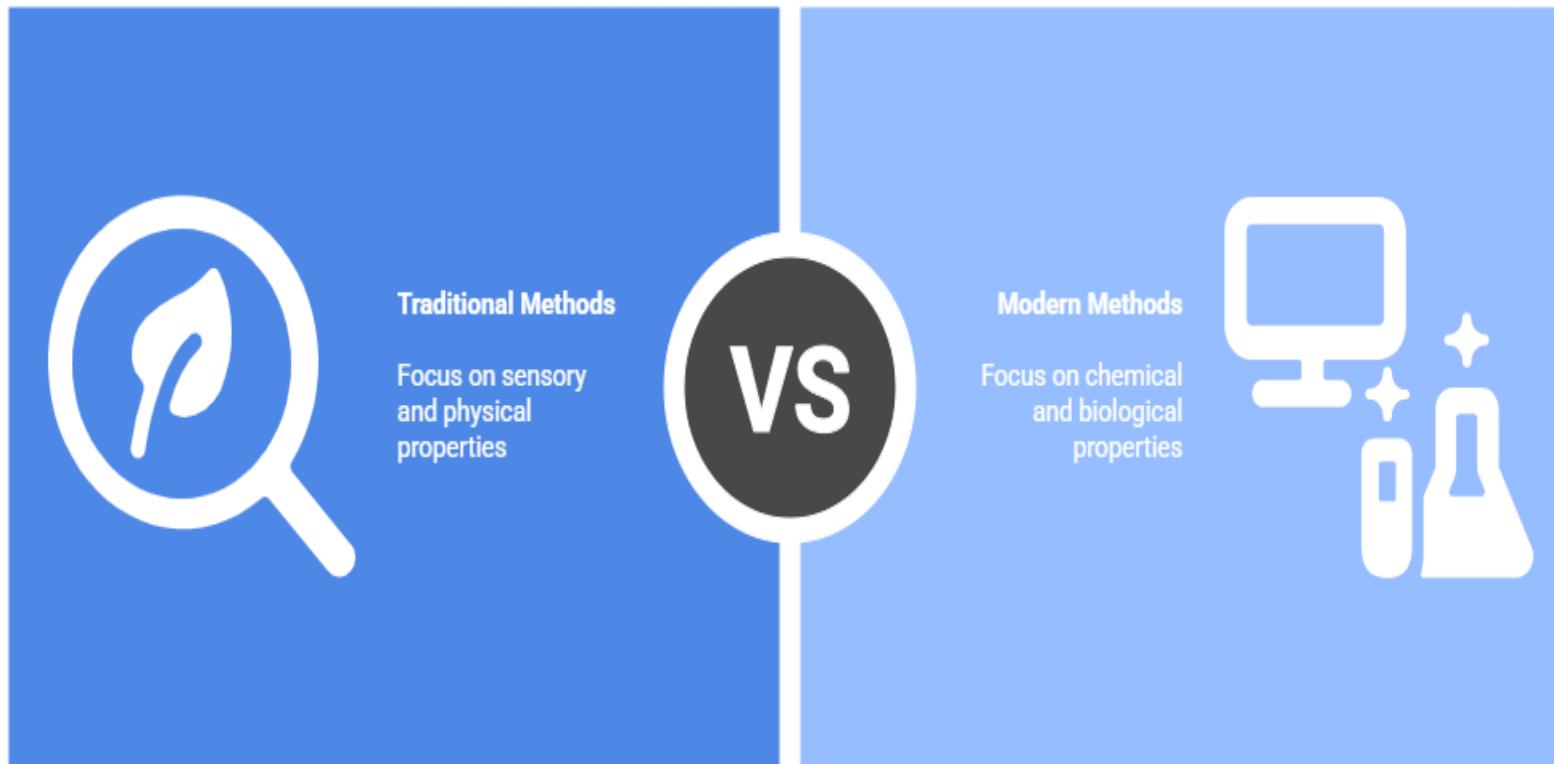
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Which method should be used to evaluate crude drugs?



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Which evaluation method is most suitable for pharmacognosy?



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REFERENCES

1. Trease and Evans Pharmacognosy – W.C. Evans
2. Pharmacognosy – Varro E. Tyler, Lynn R. Brady, James E. Robbers
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4. Practical Pharmacognosy – C.K. Kokate
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7. Pharmacognosy Reviews (phcogrev.com)
8. ScienceDirect – Pharmacognosy Topics
9. ResearchGate – Pharmacognosy Publications



Thank You

