

# **Development and Evaluation of Polyherbal Anticancer Tablets: A Review**

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**Abstract:** *Cancer is a malignant abnormal growth of cells, one of the most dreaded and complex diseases involving numerous tempo spatial changes in cell physiology, which ultimately lead to malignant tumours, Neoplasia. More than 100 types of cancers have been reported, symptoms vary depending on the type and treatment may include chemotherapy, radiation, and/or surgery. Herbal remedies are assumed to be safe, cause less complications and are less likely to cause dependency. The anticancer activity of medicinal plants is due to antioxidant compositions. Therefore, the various standardized combinations and preparation of dose and dosage regimen of the active components assessed for their synergistic effects, which could play a critical role in cancer treatment. Evaluation parameters to assess the in vitro anticancer activity includes Caspase-3, Caspase-9, Chromosomal Aberration Assay, Alamar Blue Resazurin Reduction assay, LDH assay, XTT assay, Sulforhodamine-B assay, MTT assay, DNA Fragmentation assay, ELISA assay, Neutral Red Uptake Cytotoxic assay, SRB assay, Tryphan Blue assay. Evaluation of dried extract or granules includes Bulk density, Tapped density, Carr's index, Hausner's ratio, Angle of repose while the tablets evaluated by Drug-Excipient Compatibility Study by FT-IR, Stability studies, Hardness, Thickness, Weight Variation, Friability, Disintegration Time, In vitro Dissolution test*

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