Background: The use of herbal medicines is widely used for prevention and treatment of diseases worldwide including Palestine. Many of these plant are used in the treatment GI disturbances, hypertension, diabetes and as analgesic agent and may require long term usage. The level of some heavy metals and microbial contaminants in some of these medicinal plant consumed by Palestinians were studied in order to evaluate their quality.

Methodology: The level of metals like Zinc, Cadmium, Lead and Copper were quantified by atomic Absorption Spectrophotometry. Moreover, the bacterial and fungal contamination was determined for the dried powdered of the selected plants. All of our procedures are done under USP technique.

Result: The result of the heavy metals showed elements like copper and cadmium were above the allowable limits in all the tested plant. However, lead was within acceptable limits in all the tested plants. Zinc metal was above the allowable limit in 78.9%. The microbiological results of the tested plants revealed that 63.2% of it was contaminated by bacteria, & 89.5% contaminated by yeast.

Conclusion: Herbal used in the Palestinian markets don't meet the international requirement of heavy metal and microbiological limits. Thus an urgent action has to be taken by the responsible authorities in order to improve prevent possible toxicity such has implementing importation and registration requirements as well as regular quality check of these sold and imported herbal.