

Isolation and Analysis of Chemotherapeutic profiles from the roots of *Hydnora abyssinica*

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Abstract

Recent research has shown that cancer is a great threat to many people around the world rated the second causing more than 2.6 million deaths per year. The massive loss of lives is due to the high cost of treating cancer which many people cannot afford to pay. Another reason that has caused all these deaths is that modern methods of treating cancer are less effective and they do not give a permanent solution to the affected organs, nor do they increase the patient's life span. Because of these problems, there is a need to extract the chemotherapeutic compounds from these available natural plant *Hydnora abyssinica* because they are not costly to synthesize, and they do not affect the normal cells which are near the affected organs. Isolation and analysis was performed using GC-MS. The results indicated presence of several phytochemicals in varying intensities. Alkaloids, flavonoids and steroids were all exhibited in the root extracts. Several chemotherapeutic compounds were isolated using GC-MS.

Key words: chemotherapy, root isolates, *Hydnora abyssinica*