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M S Ashawat

Laureate Institute of Pharmacy, India

Designing and development of herbal water purifier to control water borne diseases in the hills of Himachal Pradesh

Aim: Designing and development of herbal water purifier to control water borne diseases in the hills of Himachal Pradesh.

Objective: To develop cheap and sustainable water purification system.

Introduction: Typhoid is water borne diseases causing major health problem in Himachal Pradesh. The affected population not only suffer physically but economically too. More and more antibiotics are being prescribed to subside onset of symptoms which are very gradual over a few days. Many microorganisms contain plasmids encoding resistance to chloramphenicol, ampicillin and many other antibiotics that have long been used to treat enteric fever. So management of water borne diseases continue to pose a challenge, even after one hundred year passed. Here strategy has been disclosed for the development of herbal water purifier to control water borne diseases in the hills of Himachal Pradesh.

Material & Method: The material copper, clay and synthetic polymers already known for their antibacterial activity were chosen for the construction of column. The *Aegle marmelose* (Bale) leaves extract, *Punica granatum* (Anaar) peel extract and other plant extracts has been used as filling material for the development of herbal water purifier. These are nontoxic in long term use and found effective against the micro-organisms. The layer of sand has been used to separate the material trapping the extracts.

Results & Conclusion: The column developed using one of the herbal extracts is at final stage. It has been found effective in primary filtration the efficiency against the microbial bio-burden is under investigation.

Biography

Ashawat elected as State Vice president of APTI moreover assuming overall responsibility of a devoted educator covering professional development, had been as Core Committee member of various committee in IPC 2017 and as an academicians put forward view in a capacity of various committee of State Technical University concerned to Affiliation and staff ratification & election committees.

msaresearchg@gmail.com

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