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Green chemistry in pharmaceutical industry

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Abstract

Yes, we all want a safer world; if so? What are our actions towards achieving this? The COP26 held in Glasgow centered on climate change and ways of reduction of greenhouse gases; are a few steps taken to create a safer world for all generations. It's not enough to talk on current situations but major stakeholders are required to act, as pharmaceutical companies are leaning towards research on green chemistry. The pharmaceutical industry has alternatively looked to green chemistry for the design of chemical products which are environmentally friendly to the ecosystem.

Paul Anastas and John Warner coined the two-letter word "green chemistry" at the United States Environmental Protection Agency, and they developed the twelve principles of green chemistry. This relatively new area of chemistry utilizes water as the medium of chemical reactions that are done in the laboratory. Chemical reactions are usually done in a medium called solvent. Built on the idea of creating a sustainable future is what green chemistry is all about. The contributions of green chemistry to the pharmaceutical industry includes the Green RP-HPLC method for a rapid analysis of olmesartan medoxomil (OLM) in bulk drugs, self-micro emulsifying drug delivery system (SMEDDS) and the production of the drug sertraline hydrochloride (C₁₇H₁₈Cl₃N) also known as Zoloft. This research will focus on the latest contribution of green chemistry to the pharmaceutical industry and its disadvantages.

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