

HP Laundry Sanitizer

Disinfecting solution for hygienically clean laundry

The spread of microorganisms by fabrics has been recognized as a potential health hazard. Clothing can be capable of transmitting disease as it is a suitable environment for growth of microorganisms. Amidst the break out of COVID-19, awareness about various sanitization procedures for personal hygiene and surface cleanliness has increased. It was found that infectious viruses are air borne and so, clothes may also act as carriers of infectious virus. The sanitation of microbial contaminations from textile is an important aspect of laundering apart from the removal of stains and dirt from used and worn textiles. In addition, there is a need for improved sanitizers which do not fade color or damage the fabrics. Usage of sanitizers and liquid soap for personal care has seen steep increasing demand in this on-going pandemic. To tackle this, commercial players have come up with laundry sanitizer, which is added along with fabric conditioner/softener during the washing of clothes.



Fig. 1: In-house developed laundry sanitizer formulations

Various fabric sanitizer formulations are designed to provide disinfecting solution for hygienically clean laundry and the formulation must be safe to use, environmentally friendly, aesthetically pleasing and cost effective. All fabric sanitizer compositions have major amounts of water, minor amounts of sanitizing agents such as quaternary ammonium compounds and other ingredients like emulsifiers, stabilizers, colorants, preservatives and fragrance. All these components are added in appropriate proportion under specific stirring conditions to afford stable formulation at ambient conditions. In-house developed formulation (HP Laundry sanitizer) is tested for antimicrobial efficacy and showed excellent performance compared to well-known commercial product and results are provided below:

Samples	Test organism	Efficacy
HP- Laundry Sanitizer	Gram positive bacteria (ATCC6538)	99.95%
	Gram negative bacteria (ATCC4352)	99.90%
Commercial Laundry Sanitizer	Gram positive bacteria (ATCC6538)	99.7%
	Gram negative bacteria (ATCC4352)	99.66%

