

Controlled-release Hydrogel Mitigating Sewer Environment



Technology

Malodor is an important class of air pollution that has a serious threat to personal health and quality of life. Sewer is one of major sources of malodor in urban environment and is particularly difficult to be treated. Based on controlled-release of biocide, this hydrogel technology converts hydrogen sulfide and ammonia gases in air into harmless and odorless products, which aims to address the malodor problem at the source by killing odor causing microbes and inhibiting odor generation and converting malodors through catalytic transformation.



Potential Applications

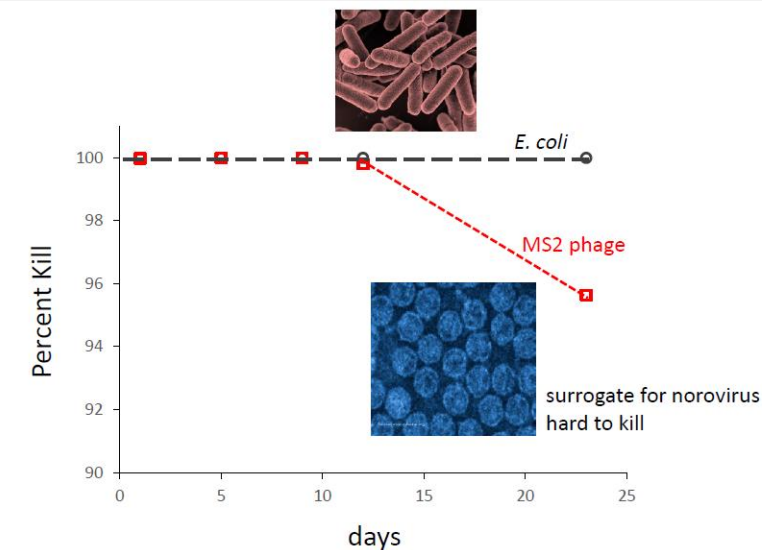
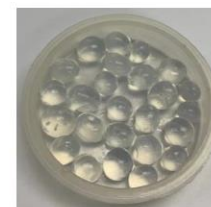
Malodor treatment of

- Drainage systems
- Sewage treatment sites
- Waste treatment and handling facilities
- Landfills
- Indoor at lavatories
- Wet markets
- etc



Advantages

- Inhibit microorganisms causing malodor in drainage and sewage systems
- Work under aggressive environment in sewer and drainage system
- Over 80% H₂S suppression
- Effective for at least 30 days



Controlled-release Hydrogel (left figure)
Effectiveness in microbial and odor control (right figure)



Intellectual Properties

US Patent No. 13/997795, 16/175031
Chinese Patent No. 201180063144.6
Hong Kong Patent No. 13112633.3

