

Errata for Water Treatment / Water Works Operator book (2024 edition):

Question 51:

Ultra-violet UV treatment (choose all that apply):

Possible Choices

will not use chemicals

can inactivate viruses completely

can inactivate Coliforms

can inactivate Giardia

can inactivate Cryptosporidium

None of the choices.

The correct answer and rationale is listed here (basically all choices are correct):

Answer:

Ultra-violet UV treatment will not use chemicals. It can inactivate viruses completely. However, it cannot inactivate coliforms, Giardia, or cryptosporidium. **unless water is clear.**

UV effectiveness can be reduced by turbidity, color, or the presence of particles in the water that shield microorganisms from UV light.