

Sylvan Source M-600 NSF Test Results

NSF Report J-00066550

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SRI International, an independent, nonprofit research institute, evaluated and recommended 5 contaminants, based on Henry's Law and water solubility, to be used as proxies for contaminants without requiring individual testing. NSF tested the contaminant reduction capabilities of the Sylvan Source M-600, using the 5 recommended proxies with the following results:

1) NSF Test Results

Testing conducted by adding the test compound to water from a public water supply and operating the M-600 system for one complete batch. Influent analysis conducted on test water prior to system operation. Effluent analysis conducted on subsample from processing an entire batch. Influent concentrations selected based on detection limit and desired demonstration of percent reduction.

Compound/Proxy	Influent Concentration ug/L	Effluent Concentration ug/L	Detection Limit ug/L	Actual % Reduction	95% Confidence Level
carbon tetrachloride (CCl ₄)	370	Non-detectable	0.5	99.9% min	2 ppb+/- 0.20
chlorobenzene (CB)	98	Non-detectable	0.5	99.5% min	2 ppb+/- 0.26
bromo-dichloromethane (BDM)	100	Non-detectable	0.5	98.2% min	2 ppb+/- 0.28
trichloroethylene (TCE)	84	Non-detectable	0.5	99.4% min	2 ppb+/- 0.24
isopropyl alcohol (IPA)	2000	80		96.0%	5000 ppb+/- 0.24

Source M-600 system independently tested to reduce an influent concentration of [x] ug/L to an average product water concentration (effluent) of [y] ug/L.

Official NSF test report available upon request from Sylvan Source.

2) Proxy Reduction Claims

For the following compounds, claims of system effectiveness in reducing these compounds based on independent testing of compounds scientifically determined to be proxies. Proxy determination by SRI International. Not performance tested or certified by NSF.

Compound	Influent Concentration, ug/L	Effluent Concentration, ug/L	Detection Limit ug/L	Actual % Reduction
carbon dioxide	370	Non-detectable	0.5	99.9% min
ozone	370	Non-detectable	0.5	99.9% min
methane	370	Non-detectable	0.5	99.9% min
oxygen	370	Non-detectable	0.5	99.9% min
nitrogen	370	Non-detectable	0.5	99.9% min
vinyl chloride	370	Non-detectable	0.5	99.9% min
dichlorobenzene	98	Non-detectable	0.5	96.7% min
xylene	98	Non-detectable	0.5	96.7% min

Compound	Influent Concentration, ug/L	Effluent Concentration, ug/L	Detection Limit ug/L	Actual % Reduction
hexachloroethane	98	Non-detectable	0.5	96.7% min
ethylbenzene	98	Non-detectable	0.5	96.7% min
benzene	98	Non-detectable	0.5	96.7% min
o-xylene	98	Non-detectable	0.5	96.7% min
toluene	98	Non-detectable	0.5	96.7% min
m-xylene	98	Non-detectable	0.5	96.7% min
p-xylene	98	Non-detectable	0.5	96.7% min
hydrogen sulfide	98	Non-detectable	0.5	96.7% min
chloroethane	98	Non-detectable	0.5	96.7% min
dieldrin	100	Non-detectable	0.5	99.0% min
methoxychlor	100	Non-detectable	0.5	99.0% min
styrene	100	Non-detectable	0.5	99.0% min
acenaphthene	100	Non-detectable	0.5	99.0% min
1,1,2-tetrachloroethane	100	Non-detectable	0.5	99.0% min
naphthalene	100	Non-detectable	0.5	99.0% min
aldrin	100	Non-detectable	0.5	99.0% min
bromoform	100	Non-detectable	0.5	99.0% min
sulfur dioxide	100	Non-detectable	0.5	99.0% min
1,1,2-trichloroethane	100	Non-detectable	0.5	99.0% min
chlorine dioxide	100	Non-detectable	0.5	99.0% min
chlorine	84	Non-detectable	0.5	98.6% min
1,1,1 trichloroethane	84	Non-detectable	0.5	98.6% min
1,1-dichloroethylene	84	Non-detectable	0.5	98.6% min
tetrachloroethylene	84	Non-detectable	0.5	98.6% min
ethylamine	2000	80	na	96.0%
butylethylamine	2000	80	na	96.0%
diethylamine	2000	80	na	96.0%
acetonitrile	2000	80	na	96.0%