

Association for the Advancement of Medical Instrumentation(AAMI) Hemodialysis Water Quality

Maximum allowable chemical contaminant levels in water used to prepare dialysate and concentrates from powder at a dialysis facility and to reprocess dialyzers for multiple use^a.

Contaminant	Maximum Concentration (mg/L) ^b
Aluminum.....	0.01
Antimony.....	0.006
Arsenic.....	0.005
Barium.....	0.10
Beryllium.....	0.0004
Cadmium.....	0.001
Calcium.....	2 (0.1 mEq/L)
Chloramines.....	0.10
Chromium.....	0.014
Copper.....	0.10
Fluoride.....	0.20
Free Chlorine.....	0.50
Lead.....	0.005
Magnesium.....	4 (0.3 mEq/L)
Mercury.....	0.0002
Nitrate (as N).....	2.00
Potassium.....	8 (0.2 mEq/L)
Selenium.....	0.09
Silver.....	0.005
Sodium.....	70 (3.0 mEq/L)
Sulfate.....	100
Thallium.....	0.002
Zinc.....	0.10

a) The physician has the ultimate responsibility for ensuring the quality of water used for dialysis.

b) Unless otherwise noted.

Water Bacteriology/Endotoxins

Product water used to prepare dialysate or concentrates from powder at a dialysis facility, or to reprocess dialyzers for multiple use, should contain a total viable microbial count of less than 200 CFU/mL and an endotoxin concentration of less than 2 EU/mL. The action level for the total viable microbial count in the product water shall be 50 EU/mL and the action level for the endotoxin concentration shall be 1 EU/mL. If these action levels are observed in the product water, corrective measures, such as disinfection and retesting, shall be taken promptly to reduce the levels to an acceptable range.