

Contents

1. Scopes	7
2. Normative references	7
3. Terms and definitions	8
4. Hygiene requirements for drinking water	8
5. Hygiene requirements for drinking water quality	14
6. Hygiene requirements for centralized water supply unit	14
7. Hygiene requirements for secondary water supply	14
8 Hygiene requirements for health security products related to drinking water.	14
9 Water quality monitoring	15
10 Water quality inspection methods	16
Appendix A	16

Preface

All technical contents of this standard are mandatory.

This standard replaces GB 5749–1985 Standards for Drinking Water Quality since the date of implementation.

Compared with GB 5749–1985, the main changes of this standard are as follows:

1. The number of water quality indicators was added from 35 in GB 5749–1985 to 106, with an increase of 71; 8 were revised; among them:
 - a) Microbial indicators increased from 2 to 6, adding *Escherichia coli*, heat-resistant coliform bacteria, *Giardia* and *Cryptosporidium*; total coliform bacteria is revised;
 - b) Drinking water disinfectants increased from 1 to 4, adding monochloramine, ozone and chlorine dioxide;
 - c) Inorganic compounds in toxicology index increased from 10 to 21 items, adding bromate, chlorite, chlorate, antimony, barium, beryllium, boron, molybdenum, nickel, thallium, cyanogen chloride; Arsenic, cadmium, lead and nitrate were revised,
 - d) Organic compounds in toxicology index increased from 5 to 53, adding formaldehyde, trihalomethane, methylene chloride, 1,2-dichloroethane, 1,1,1-trichloroethane, bromoform, chlorodibromomethane, bromodichloromethane, epoxy chloropropane, vinyl chloride, 1,1-dichloroethylene, 1,2-dichloroethylene, trichloroethylene, tetrachloroethylene, hexachlorobutadiene, dichloroacetic acid, trichloroacetic acid, trichloroacetaldehyde, benzene, toluene, xylene, ethylbenzene, styrene, 2,4,6-trichlorophenol, chlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, trichlorobenzene, Bis(2-ethylhexyl) phthalate, acrylamide, micro capsule algal toxins-LR, bentazone, chlorothalonil, deltamethrin, dimethoate, 2,4-D, heptachlor, hexachlorobenzene, gamma-BHC, malathion, parathion, methyl parathion, pentachlorophenol, atrazine, carbofuran, chlorpyrifos, dichlorvos, glyphosate; carbon tetrachloride was revised;
 - e) Sensory properties and the general chemical index increased from 15 to

GB 5749-2006

Fluoride/ (mg/L)	1.0
Nitrate (as N)/ (mg/L)	10 20 (when restricted by ground water)
Trichloromethane/ (mg/L)	0.06
carbon tetrachloride/ (mg/L)	0.002
Bromate (using O_3) / (mg/L)	0.01
Formaldehyde (using O_3) / (mg/L)	0.9
Chlorite (using chlorine dioxide for disinfection)/ (mg/L)	0.7
Chlorate (using compound chlorine dioxide for disinfection)/ (mg/L)	0.7
3.sensory properties and general chemical indicators	
chroma (platinum cobalt chromaticity unit)	15
turbidity (scattering turbidity unit)/ NTU	1 3 (when restricted by water source and purification technology)
smell	no abnormal odour
visible substances	none
pH	≥ 6.5 and ≤ 8.5
Aluminum/ (mg/L)	0.2
Iron/ (mg/L)	0.3
Manganese/ (mg/L)	0.1
Copper/ (mg/L)	1.0
Zinc/ (mg/L)	1.0
Chloride/ (mg/L)	250
Sulfate/ (mg/L)	250
total dissolved solids/ (mg/L)	1000
total hardness (as $CaCO_3$)/ (mg/L)	450
oxygen consumption (COD_{Mn} , as O_2)/ (mg/L)	3 5 (when restricted by water source and the original oxygen consumption $> 6mg/L$)
volatile phenols (as phenol) /(mg/L)	0.002
anion synthetic detergent/ (mg/L)	0.3
4.radioactivity index ^b	guidance value
total radioactivity α / (Bq/L)	0.5

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