

MATERIALI DI RIFERIMENTO PER IL D.LGS N. 18/2023

QUALITÀ DELLE ACQUE DESTINATE AL CONSUMO UMANO

Il Decreto Legislativo n. 18 del 23 febbraio 2023 recepisce la Direttiva (UE) 2020/2184 sulla qualità delle acque destinate al consumo umano, armonizzando la normativa italiana con gli standard europei. Questo provvedimento abroga il D.Lgs. n. 31/2001, introducendo criteri più aggiornati e un approccio preventivo basato sull'analisi e gestione del rischio lungo l'intera filiera idrica. I punti salienti includono: l'adozione obbligatoria dei Piani di Sicurezza dell'Acqua (Water Safety Plans), il rafforzamento della sorveglianza sanitaria, e una maggiore trasparenza informativa verso l'utenza. Il decreto prevede un ampliamento dei parametri da monitorare, includendo contaminanti emergenti e sostanze prioritarie. Tra queste figurano i composti perfluoroalchilici (PFAS), il bisfenolo A (BPA), gli acidi aloacetici e la microcistina-LR. Ultra Scientific Italia dispone dell'elenco completo di Materiali di Riferimento per tutti i parametri previsti dalla normativa.

ACRILAMMIDE

- Acrylamide (cas 79-06-1) Solution, 1000 µg/mL, in methanol - 1x1 mL
- Acrylamide-2,3,3-d3 (cas# 122775-19-3) Solution, 100 µg/mL, in Methanol - 1x1 mL
- Acrylamide-13C3 (1,2,3-13C3, 99%) (+100 ppm Hydroquinone) (cas# 287399-26-2) Solution, 1 mg/mL, in Methanol - 1x1,2 mL

BISFENOLO A

- Bisphenol A (cas# 80-05-7) Solution, 1000 µg/mL, in Methanol - 1x1 mL
- Bisphenol A D14 (cas# 120155-79-5) Solution, 100 µg/mL, in Acetonitrile - 1x1 mL
- Bisphenol A-d16 (cas# 96210-87-6) Solution, 100 µg/mL, in Acetonitrile - 1x5 mL
- 13C12-Bisphenol A (cas# 263261-65-0) Solution, 50 µg/mL, in Methanol - 1x1,2 mL

EPICLORIDRINA

- Epichlorohydrin (cas# 106-89-8) Solution, 1000 µg/mL, in Methanol - 1x1 mL
- Epichlorohydrin (D5,98%) (cas# 69533-54-6), neat - 1 g
- Epichlorohydrin (13C3, 99%) (cas# NA) Solution, 100 µg/mL, in Acetonitrile - 1x1,2 mL

Idrocarburi Policiclici Aromatici

- Benzo[a]pyrene (cas 50-32-8) Solution, 100 µg/mL, in dichloromethane - 1x1 mL
- PAH Mixture for DL 31/2001 (5 analytes), 100 µg/mL, in Methylene Chloride - 1x1 mL (benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene, benzo[ghi]perylene)
- PAH MIX (22 analytes), 200 µg/mL, in Methylene Chloride - 1x1 mL (Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo[a]anthracene, Chrysene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[e]pyrene, Benzo[a]pyrene, Perylene, Indeno[1,2,3-cd]pyrene, Benzo[ghi]perylene, Dibenzo[a,h]anthracene, Dibenzo[a,i]pyrene, Dibenzo[a,e]pyrene, Dibenzo[a,j]pyrene, Dibenzo[a,h]pyrene)

ANTIPARASSITARI

- IRSA 5090 Organochlorine Pesticides Mixture (25 Analytes), 100 µg/mL, in Acetone - 1x1 mL (alachlor, aldrin, atrazine, 2,4'-DDT, 4,4'-DDT, 2,4'-DDE, 4,4'-DDE, 2,4'-DDD, 4,4'-DDD, apha-BHC, beta-BHC, delta-BHC, gamma-BHC, alpha-chlordane, gamma-chlordane, dieldrin, endrin, endosulfan I, endosulfan II, heptachlor, heptachlor, epoxide - isomer B, methoxychlor, hexachlorobenzene, isodrin, pentachlorobenzene)
- IRSA 5100 Organophosphate Pesticides Mixture (26 Analytes), 100 µg/mL, in Methylene Chloride - 1x1 mL (azinphos-ethyl, azinphos-methyl, bromophos-methyl, bromophos-ethyl, chlorfenvinphos, chlorpyrifos-methyl, chlorpyrifos, demeton-S-methyl sulfone, demeton-S-methyl, dimethoate, heptenophos, ethion, fenitrothion, phosalone, iprodione, malaoxon, malathion, methidathion, paraoxon, methyl paraoxon, parathion (ethyl), methyl parathion, pirimiphos-methyl, procymidone, tetrachlorvinphos, vamidothion)
- IRSA 5060 Pesticides Mixture (23 Analytes), 10 µg/mL, in Acetone - 1x1 mL (methoxychlor, hexazinone, metazachlor, orbencarb, vinclozolin, sebutylazine, trifluralin, terbutylazine-desethyl, atrazine-desisopropyl, atrazine-desethyl, simazine, atrazine, propazine, terbutylazine, alachlor, prometryn, terbutryn(e), metolachlor, cyanazine, pendimethalin, molinate, desmetryne, ametryn)

Composti Organici Volatili (VOC)

- Trihalomethanes (THM) Mixture (4 Analytes), 100 µg/mL, in Methanol - 1x1 mL (bromoform, chloroform, bromodichloromethane, dibromochloromethane, dibromochloromethane)
- 1,2-Dichloroethane (cas 107-06-2) Solution, 100 µg/mL, in methanol - 1x1 mL
- Trichloroethene (cas 79-01-6) Solution, 100 µg/mL, in methanol - 1x1 mL
- Tetrachloroethene (cas 127-18-4) Solution, 100 µg/mL, in methanol - 1x1 mL
- Benzene (cas 71-43-2) Solution, 100 µg/mL, in methanol - 1x1 mL
- Vinyl chloride (cas 75-01-4) Solution, 100 µg/mL, in methanol - 1x1 mL
- DL 31 VOCs Mixture (9 Analytes), varied conc., in Methanol - 1x1 mL (1,2-dichloroethane, trichloroethene, tetrachloroethene, bromodichloromethane, bromoform, chloroform, dibromochloromethane, 1,1,1-trichloroethane, carbon tetrachloride)

Acidi Aloacetici (HAAs)

- Haloacetic Acid Mixture (9 Analytes), 1000 µg/mL, in Methyl tert-Butyl Ether (MTBE) - 1x1 mL (bromoacetic acid, bromochloroacetic acid, bromodichloroacetic acid, chloroacetic acid, chlorodibromoacetic acid, dibromoacetic acid, dichloroacetic acid, tribromoacetic acid, trichloroacetic acid)
- Monochloroacetic Acid-2-13C (cas# 1633-47-2) Solution, 1000 µg/mL, in MTBE - 1x1 mL
- Dichloroacetic Acid-2-13C (cas# 286367-78-0) Solution, 1000 µg/mL, in MTBE - 1x1 mL
- Trichloroacetic Acid-2-13C (cas# 32479-99-5) Solution, 1000 µg/mL, in MTBE - 1x1 mL
- Monobromoacetic Acid-1-13C (cas# 57858-24-9) Solution, 1000 µg/mL, in MTBE - 1x1 mL

MICROCISTINA

- Microcystin-LR (MCLR) (cas# 101043-37-2) Solution, approx. 10 µg/mL, in Acetonitrile:Water 50% (v/v) - 1x0,5 mL
- Microcystin LR (15N10, 97%) (cas# NA) Solution, 10 µg/mL, in Methanol:Water 1:1 - 1x1 mL
- Microcystin-LR, Ethylated (D5, 98%) (cas# NA), neat - 0,025 mg

ULTRA SCIENTIFIC ITALIA

tel. 0516425042
ultra@ultrasci.it
www.ultrasci.it

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Sostanze per- e polifluoroalchiliche (PFAS)

- EU Drinking Water Directive PFAS Mixture (20 analytes), 10 µg/mL, in Methanol:Water - 1x1 mL
(Perfluorobutanoic acid (PFBA), Perfluoropentanoic acid (PFPA), Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorooctanoic acid (PFOA), Perfluorononanoic acid (PFNA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnA), Perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTriDA), Perfluorobutanesulfonic acid (PFBS), Perfluoropentanesulfonic acid (PFPeS), Perfluoroheptanesulfonic acid (PFHpS), Perfluoroheptanesulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorononanesulfonic acid (PFNS), Perfluorodecanesulfonic acid (PFDS), Perfluoroundecanesulfonic acid (PFUnDS), Perfluorododecanesulfonic acid (PFDoDS), Perfluorotridecanesulfonic acid (PFTriDS))
- Perfluoro(2-methyl-3-oxahexanoic) acid (HFPA-DA – Gen-X) (cas# 13252-13-6) Solution, 100 µg/mL, in Methanol - 1x1 mL
- Dodecafluoro-3H-4,8-dioxananoic acid (DONA) (cas# 919005-14-4) Solution, 100 µg/mL, in Methanol - 1x1 mL
- Sodium 1H,1H,2H,2H-perfluoro-1-octanesulfonate (6:2 FTS) (cas# 27619-94-9) Solution, 100 µg/mL, in Methanol - 1x1 mL
- F-Diox Acid (cC6O4) (cas 1190931-41-9) Standard, 100 µg/mL, in Methanol - 1x1 mL
- MFS Fractions (ADV) (cas# 220207-15-8 Na Salt / 329238-24-6 Acid) Solution, 100 µg/mL each, in Methanol - Kit (6 fractions x 1 mL) *
(MFS-N2, MFS-N3, MFS-N4, MFS-N5, MFS-M3, MFS-M4)

METALLI

- Soluzioni di Singoli Metalli per ICP/ICP-OES/ICP-MS, 1000 µg/mL o 10 µg/mL - 1x100 o 125 mL
(Alluminio (Al), Antimonio (Sb), Arsenico (As), Boro (B), Cadmio (Cd), Calcio (Ca), Cromo (Cr), Cromo VI (Cr VI), Ferro (Fe), Manganese (Mn), Magnesio (Mg), Mercurio (Hg), Nickel (Ni), Piombo (Pb), Rame (Cu), Selenio (Se), Sodio (Na), Uranio (U), Vanadio (V))
- Mix di metalli a diverse concentrazioni e composizioni - Mix Custom

ANIONI e CATIONI

- Soluzioni di Singoli Anioni e Cationi, 1000 µg/mL - 1x125 mL
(Ammonio (NH₄⁺), Bromati (BrO₃⁻), Calcio (Ca²⁺), Cloruri (Cl⁻), Cloriti (ClO₂⁻), Cianuri (CN⁻), Fluoruri (F⁻), Litio (Li⁺), Magnesio (Mg²⁺), Nitrati (NO₃⁻), Nitriti (NO₂⁻), Potassio (K⁺), Sodio (Na⁺), Solfati (SO₄²⁻))
- Multi-Ion Standard (7 Components), 1000 µg/mL/100 µg/mL/10 µg/mL, in Water - 1x100 mL
(Bromuri (Br⁻), Cloruri (Cl⁻), Fluoruri (F⁻), Nitrati (NO₃⁻), Nitriti (NO₂⁻), Fosfati (PO₄³⁻), Solfati (SO₄²⁻))
- Multi-Ion Standard (4 Components), 1000 µg/mL, in Water - 1x100 mL
(Calcio (Ca²⁺), Magnesio (Mg²⁺), Potassio (K⁺), Sodio (Na⁺))
- Mix di Anioni e Cationi a diverse concentrazioni e composizioni - Mix Custom

Altri Parametri Indicatori

- **COLORE** - Pt-Co/ Hazen 0 Colour Ref. Std (Optically pure water) (ISO 9001) - 1x500 mL
- **COLORE** - Pt-Co/ Hazen 5 Colour Reference Standard - 1x100/500 mL
- **COLORE** - Pt-Co/ Hazen 10 Colour Reference Standard - 1x100/500 mL
- **COLORE** - Pt-Co/ Hazen 100 Colour Reference Standard - 1x100/500 mL
- **COLORE** - Pt-Co/ Hazen 500 Colour Reference Standard - 1x100/500 mL
- **CONDUTTIVITA'** - Conductivity Standard 84 uS/cm at 25 °C - 1x500 mL
- **CONDUTTIVITA'** - Conductivity Standard 147 uS/cm at 25 °C - 1x500 mL
- **CONDUTTIVITA'** - Conductivity Standard 500 uS/cm at 25 °C - 1x500 mL
- **CONDUTTIVITA'** - Conductivity Standard 1413 uS/cm at 25 °C - 1x500 mL
- **CONDUTTIVITA'** - Conductivity Standard 5000 uS/cm at 25 °C - 1x500 mL
- **CONDUTTIVITA'** - Conductivity Standard 12.880 uS/cm at 25 °C - 1x500 mL
- **PH** - Buffer, pH 1.68 ± 0.02 at 25° C (NIST Traceable), Reference Standard - 1x500 mL
- **PH** - Buffer, pH 4.01 ± 0.01 at 25° C - Color Coded Red, Standard - 1x500/1000 mL
- **PH** - Buffer, pH 7.00 ± 0.01 at 25° C - Color Coded Yellow, Standard - 1x500/1000 mL
- **PH** - Buffer, pH 10.01 ± 0.02 at 25° C - Color Coded Blue, Standard - 1x500/1000 mL
- **PH** - Buffer pH 12.45 ± 0.02 at 25° C (NIST Traceable), Reference Standard - 1x500 mL
- **TOC** - Total Organic Carbon (TOC) Standard, 500 mg/L in water - 1x250/500 mL
- **TOC** - Total Organic Carbon (TOC) Standard, 1000 mg/L in water - 1x250/500 mL
- **Torbidità** - Turbidity Standard <0.1 NTU (Formazin) (ISO 9001) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 1 NTU (Formazin) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 10 NTU (Formazin) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 50 NTU (Formazin) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 100 NTU (Formazin) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 500 NTU (Formazin) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 1000 NTU (Formazin) - 1x100/500 mL
- **Torbidità** - Turbidity Standard 2000 NTU (Formazin) - 1x100/500 mL
- **TDS** - Total Dissolved Solids (as NaCl) 100 mg/L - 1x100/500 mL
- **TDS** - Total Dissolved Solids (as NaCl) 500 mg/L - 1x100/500 mL
- **TDS** - Total Dissolved Solids (as NaCl) 1000 mg/L - 1x100/500 mL
- **TDS** - Total Dissolved Solids (as NaCl) 1500 mg/L - 1x100/500 mL
- **TDS** - Total Dissolved Solids (as NaCl) 2000 mg/L - 1x100/500 mL
- **Durezza** - Total Hardness 1000 mg/L CaCO₃ Calibration Standard - 1x100/500 mL

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tel. 0516425042
ultra@ultrasci.it
www.ultrasci.it