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## List of Standards and Abstracts

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TITLE : SABS/TC 147/SC 04: Microbiological and biological treatment and assessment of water

**RECOMMENDED ACTION**

SANS Number Int. Relatedness	SABS Number	Year	dition	Status Code	Title	Abstract	Amend Code	Amend Number	Corr Number	Amend Ind	Amend Date
SANS 203	SABS SM 1158	2007	2.00	ST	Bactericidal and algacidal efficacy of swimming pool chemicals	Specifies a presumptive test for the evaluation of the efficacy of swimming pool chemicals recommended for the control of bacteria or algae (or both) in swimming pool water.					Reaffirm as is/Withdraw
SANS 313 (ISO 6222:1999, IDT, Ed. 2)		2004	1.00	ST	Water quality - Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium	Specifies a method for the enumeration of culturable micro-organisms in water by counting the colonies formed in a nutrient agar culture medium after aerobic incubation at 36 °C and 22 °C.					Reaffirm as is/Withdraw
SANS 738-1 (ISO 5815-1:2003, IDT, Ed. 1)		2008	1.00	ST	Water quality - Determination of biochemical oxygen demand after "n" days (BOD <sub>n</sub> ) Part 1: Dilution and seeding method with allylthiourea addition	Specifies a determination of the biochemical oxygen demand of waters by dilution and seeding with suppression of nitrification. Applicable to all waters having biochemical oxygen demands greater than or equal to 3 mg/L of oxygen (the limit of determination) and not exceeding 6 000 mg/L of oxygen. For biochemical oxygen demands greater than 6 000 mg/L of oxygen, the method is still applicable, but the errors caused by the necessary dilutions can influence the analytical quality of the test method.				Reaffirm as is/Amend/Withdraw  ISO 5815-1:2005 will be replaced by ISO/DIS 5815-1	
SANS 886 (BS 8496:2007, IDT, Ed. 1)		2009	1.00	ST	Water quality - Enumeration of micro-organisms in water samples - Guidance on the estimation of variation of results with particular reference to the contribution of uncertainty of measurement	Gives guidance on interpretation of the requirements in BS EN ISO/IEC 17025:2005 (published in South Africa as an identical adoption under the designation SANS 17025:2005) with regard to the uncertainty of measurement in microbial counts in water samples. It gives guidance on the estimation of variation in results between replicate sub-samples, which will include that due to uncertainty of measurement, in order to assess whether the variation due to uncertainty of measurement has been controlled in accordance with the requirements specified in BS EN ISO/IEC 17025:2005. It is applicable to examination of sub-samples as part of a quality assurance system. It is applicable to samples of all types of water.				Reaffirm as is/Withdraw	

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SANS 893-1		2018	2.00	ST	Legionella- Part 1: Risk management	Provides guidelines for the risk management of Legionella bacteria in any undertaking involving a work activity and to premises regulated in connection with a trade, business or other undertaking where water is used or stored and where there is a means of creating and transmitting water droplets which may be inhaled thereby causing a reasonably foreseeable risk of exposure to Legionella bacteria.				<b>Published in 2018</b>
SANS 893-2		2018	2.00	ST	Legionella-Part 2: The control of Legionella in water systems	Provides requirements for the design and management of cooling towers, evaporative condensers, hot and cold water systems, or any water system where water is used or stored and where there is a means of creating and transmitting water droplets which might be inhaled, so as to control the risk of exposure to Legionella bacteria that cause Legionnaires' disease.				<b>Published in 2018</b>
SANS 1127	SABS 1127	2007	2.00	ST	Algaecides for use in freshwater swimming pools	Covers two types of algaecides suitable for use in freshwater swimming pools.				<b>Reaffirm as is/Amend/Revise/Withdraw</b>
SANS 1497	SABS 1497	2006	2.00	ST	Biocides for use in industrial cooling water	Covers three types of organic biocides (liquid, paste or solid) that are intended for the control of micro-organisms in industrial cooling systems that have clean surfaces.				<b>Reaffirm as is/Amend/Revise/Withdraw</b>
SANS 1498	SABS 1498	2007	2.00	ST	Algaecides for use in industrial cooling water	Covers three types of organic algaecides (liquid, paste or solid) for the control of algae in industrial cooling water systems that have clean surfaces.				<b>Reaffirm as is/Amend/Revise/Withdraw</b>
SANS 5221	SABS SM 221	2011	4.04	ST	Microbiological analysis of water - General test methods	Describes methods for the detection and enumeration, in potable water, non-potable water and effluent water, of total coliform bacteria, faecal coliform bacteria, E. coli and heterotrophic bacteria.	C	1	N	2002-10-18
							<b>Amendment requested</b>			

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SANS 5682	SABS SM 682	2006	2.01	ST	Efficacy of algaecides	Specifies a method to determine the algaecidal efficacy of disinfectants using the Selenastrum capricornutum growth inhibition test.	A	1	N	2006-11-03
							<b>Reaffirm as is/Amend/Revise/Withdraw</b>			
SANS 6315		2003	1.00	ST	Water quality - Detection and enumeration of Vibrio cholerae	Specifies a method for the detection and enumeration of Vibrio cholerae in water.				
							<b>Reaffirm as is/Amend/Revise/Withdraw</b>			
SANS 6341 (ISO 6341:2012, IDT)		2015	1.00	ST	Water Quality - Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) Acute toxicity test	Specifies a method for the determination of the acute toxicity to Daphnia magna Straus (Cladocera, Crustacea).				
							<b>Reaffirm as is/Amend/Withdraw</b>			
SANS 6461-1 (ISO 6461-1:1986, IDT, Ed. 1)		2003	1.00	ST	Water quality - Detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) Part 1: Method by enrichment in a liquid medium	Specifies a method for the detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) by enrichment in a liquid medium.				
							<b>Reaffirm as is/Amend/Withdraw</b>			
SANS 6461-2 (ISO 6461-2:1986, IDT, Ed. 1)		2003	1.00	ST	Water quality - Detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) Part 2: Method by membrane filtration	Specifies a method for the detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) by membrane filtration.				
							<b>Reaffirm as is/Amend/Withdraw</b>			
SANS 7346-1 (ISO 7346-1:1996, IDT, Ed. 2)		2014	1.00	ST	Water quality - Determination of the acute lethal toxicity of substances to a freshwater fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)] - Part 1: Static method.	Specifies a static method for the determination of the acute lethal toxicity of stable, non-volatile, single substances, soluble in water under specified conditions, to a freshwater fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae) - common name, zebra fish] in water of a specified quality.				
							<b>Reaffirm as is/Amend/Withdraw</b>			

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SANS Number Int. Relatedness	SABS Number	Year	Edition	Status Code	Title	Abstract	Amend Code	Amend Number	Amend Ind	Amend Date
SANS 7899-1 (ISO 7899-1:1998, IDT, Ed. 2)		2004	1.00	ST	Water quality - Detection and enumeration of intestinal enterococci Part 1: Miniaturized method (Most Probable Number) for surface and waste water	Specifies a miniaturized method for the detection and enumeration of major intestinal enterococci in surface and waste water by inoculation in a liquid medium. Applies to all types of surface and waste waters, particularly those rich in suspended matter.	C	1	I	2004-10-08
							<b>Reaffirm as is/Amend/Withdraw/ adopt ISO 7899-1:1998/Cor 1:2000</b>			
SANS 7899-2 (ISO 7899-2:2000, IDT, Ed. 2)		2004	1.00	ST	Water quality - Detection and enumeration of intestinal enterococci Part 2: Membrane filtration method	Specifies a method for the detection and enumeration of intestinal enterococci in water by membrane filtration. Intended especially for the examination of drinking water, water from swimming pools and other disinfected or clean waters.				
							<b>Reaffirm as is/Amend/Withdraw</b>			
SANS 8199 (ISO 8199:2005, IDT, Ed. 2)		2006	2.00	ST	Water quality - General guidance on the enumeration of micro-organisms by culture	Presents guidance for carrying out manipulations which are common to each technique for the microbiological examination of water, particularly the preparation of samples, culture media and apparatus. Also describes the various enumeration techniques available and the criteria for the choice of a particular technique.				
							<b>Reaffirm as is/Amend/Withdraw ISO 8199:2005 will be replaced by ISO/DIS 8199</b>			
SANS 8692 (ISO 8692:2012, IDT)		2015	1.00	ST	Water Quality - Fresh water algal growth inhibition test with unicellular green algae	Specifies a method for the determination of the growth inhibition of unicellular green algae by substances and mixtures contained in water or by waste water.				
							<b>Reaffirm as is/Amend/Withdraw</b>			
SANS 9308-1 (ISO 9308-1:2000, IDT, Ed. 2)		2004	1.00	ST	Water quality - Detection and enumeration of Escherichia coli and coliform bacteria Part 1: Membrane filtration method	Describes a reference method (Standard Test) for the detection and enumeration of Escherichia coli and coliform bacteria in water for human consumption. The Standard Test is based on membrane filtration, subsequent culture on a differential agar medium and calculation of the number of target organisms in the sample.	C	1	I	2011-03-18
							<b>Proposal for ISO 9308-1: 2014 adoption received</b>			

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SANS 9308-2 (ISO 9308-2:1990, IDT, Ed. 1)		2004	1.00	ST	Water quality - Detection and enumeration of coliform organisms, thermotolerant coliform organisms and presumptive Escherichia coli Part 2: Multiple tube (most probable number) method	Specifies a method for the detection and enumeration in water of coliform organisms, thermotolerant coliform organisms and presumptive Escherichia coli (presumptive E. coli) by culture in a liquid medium in multiple tubes and calculation of their most probable numbers in the sample.					<b>Reaffirm as is/Amend/Withdraw/adopt latest version of ISO 9308-2:2012</b>
SANS 9308-3 (ISO 9308-3:1998, IDT, Ed. 1)		2004	1.00	ST	Water quality - Detection and enumeration of Escherichia coli and coliform bacteria Part 3: Miniaturized method (Most Probable Number) for the detection and enumeration of E. coli in surface and waste water	Specifies a miniaturized method for the detection and enumeration of Escherichia coli (E. coli) in surface and waste water by inoculation in a liquid medium. Applies to all types of surface and waste waters, particularly those rich in suspended matter.	C	1	I	2004-10-01	<b>Reaffirm as is/Amend/Withdraw</b>
SANS 9998 (ISO 9998:1991, IDT, Ed. 1)		2004	1.00	ST	Water quality - Practices for evaluating and controlling microbiological colony count media used in water quality tests	Covers the comparison and evaluation of the same medium prepared from different lots of materials. It also covers the comparison and evaluation of different media which are used for the same purpose. It only deals with the finished product ready to be tested, and not media formulation or preparation.					<b>Reaffirm as is/Withdraw/ adopt ISO 11133:2014 ISO 9998:1991 is withdrawn at ISO and replaced by ISO 11133:2014</b>
SANS 10705-1 (ISO 10705-1:1995, IDT, Ed. 1)		2002	1.00	ST	Water quality - Detection and enumeration of bacteriophages Part 1: Enumeration of F-specific RNA bacteriophages	Specifies a method for the detection and enumeration of F-specific ribonucleic acid (RNA) bacteriophages by incubating the sample with an appropriate host strain. The method can be applied to all kinds of water, sediments and sludges, where necessary after dilution. The method can also be applied to shellfish extracts.					<b>Reaffirm as is/Amend/Withdraw</b>
SANS 10705-2 (ISO 10705-2:2000, IDT, Ed. 1)		2002	1.00	ST	Water quality - Detection and enumeration of bacteriophages Part 2: Enumeration of somatic coliphages	Specifies a method for the detection and the enumeration of somatic coliphages by incubating the sample with an appropriate host strain. The method is applicable to all kinds of water, sediments and sludge extracts, where necessary after dilution. The method is also applicable to shellfish extracts.					<b>Reaffirm as is/Amend/Withdraw</b>

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SANS 10705-4 (ISO 10705-4:2001, IDT, Ed. 1)		2005	1.00	ST	Water quality - Detection and enumeration of bacteriophages Part 4: Enumeration of bacteriophages infecting Bacteroides fragilis	Specifies a method for the detection and enumeration of bacteriophages infecting Bacteroides fragilis by incubating the sample with an appropriate host-strain. Applies to all kinds of water, sediments sludge and shellfish extracts.				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 11348-3 (ISO 11348-3:2007, IDT)		2014	1.00	ST	Water quality - Determination of the inhibitory effect of water samples on the light emission of Vibrio fischeri (Luminescent bacteria test) Part 3: Method using freeze-dried bacteria	Describes three methods for determining the inhibition of the luminescence emitted by the marine bacterium Vibrio fischeri (NRRL B-11177).				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 11731 (ISO 11731:1998, IDT, Ed. 1)		2008	1.00	ST	Water quality - Detection and enumeration of Legionella	Describes a culture method for the isolation of Legionella organisms and estimation of their numbers in environmental samples. Is applicable to all kinds of environmental samples including potable, industrial and natural waters and associated materials such as sediments, deposits and slime.				<b>Reaffirm as is/Amend/Withdraw/Adopt</b>  <b>ISO 11731:1998 has been revised by ISO 11731: 2017</b>
SANS 11731-2 (ISO 11731-2:2004, IDT, Ed. 1)		2009	1.00	ST	Water quality - Detection and enumeration of Legionella Part 2: Direct membrane filtration method for waters with low bacterial counts	Describes a monitoring method for the isolation and enumeration of Legionella organisms in water intended for human use (e.g. hot and cold water, water used for washing), for human consumption and for treated bathing waters (e.g. swimming pools). Is especially suitable for waters expected to contain low numbers of Legionella.				<b>Reaffirm as is/Amend/Withdraw/Adopt</b>  <b>ISO 11731-2:2004 has been revised by ISO 11731: 2017</b>
SANS 13843 (ISO/TR 13843:2000, IDT, Ed. 1)		2004	1.00	ST	Water quality - Guidance on validation of microbiological methods	Deals with validation of microbiological methods, with particular emphasis on selective quantitative methods in which the quantitative estimate is based on counting of particles either directly, with the aid of a microscope, or indirectly, on the basis of growth (multiplication) into colonies or turbidity.				<b>Reaffirm as is/Amend/Withdraw/Adopt ISO 13843:2017</b>

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SANS 14371 (ISO 14371:2012, IDT, Ed. 1)		2014	1.00	ST	Water quality - Determination of fresh water sediment toxicity to Heterocypris incongruens (Crustacea, Ostracoda)	Specifies a method for the determination of lethal as well as sublethal effects of contaminated sediments on the ostracod crustacean Heterocypris incongruens after 6 d exposure. Applies not only to fresh water sediments, but also by extension to solid wastes and soils after addition of (uncontaminated) water. Also applies to chemicals or preparations that are spiked into a reference sediment. Does not apply to the testing of sediments from the estuarine or marine environment.				Reaffirm as is/Amend/Withdraw
SANS 14380 (ISO 14380:2011, IDT, Ed. 1)		2014	1.00	ST	Water quality - Determination of the acute toxicity to Thamnocephalus platyurus (crustacea, Anostraca)	Specifies a method for the determination of the lethal effects of toxicants to Thamnocephalus platyurus test organisms after 24 h exposure.				Reaffirm as is/Amend/Withdraw
SANS 19250 (ISO 19250:2010, IDT, Ed. 1)		2011	1.00	ST	Water quality - Detection of Salmonella spp.	Specifies a method for the detection of Salmonella spp. (presumptive or confirmed) in water samples. It is possible that, for epidemiological purposes or during outbreak investigations, other media are also required.				Reaffirm as is/Amend/Withdraw
SANS 20665 (ISO 20665:2008, IDT, Ed. 1)		2014	1.00	ST	Water quality - Determination of chronic toxicity to Ceriodaphnia dubia	Specifies a method for the determination of the chronic toxicity to Ceriodaphnia dubia (Cladocera, Crustacea), based on reproduction inhibition after (7 ± 1) d. Is applicable to chemical substances which are soluble or which can be maintained as stable suspensions or dispersions under the conditions of the test, industrial or sewage effluents, if appropriate after decantation, filtration or centrifugation, and fresh waters as well as aqueous extracts. Is not applicable to the testing of aquatic samples from the estuarine or marine environment.				Reaffirm as is/Amend/Withdraw
CKS 587	CKS 587	1983	1.00	ST	Trichloroisocyanurate tablets	Covers trichloroisocyanurate tablets for use as a sanitizer in swimming pools. Specifies general requirements, available chlorine content, pH value, mass of tablet, solution rate and storage stability.				To be withdrawn or converted to a SANS

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