

මහජන අදහස් සඳහා ප්‍රමිති කෙටුම්පත
பொதுசனக் கருத்துரைக்கான கட்டளை வரைவு
DRAFT STANDARD FOR PUBLIC COMMENT

(වෙනස්වීමට ඉඩ ඇත. திருத்தத்திற்குட்படக்கூடியது. Liable to alteration)

නිකුත් කළ දිනය
வெளியீட்டுத் திகதி
Date of Issue

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අදහස් එවිය යුතු අවසාන දිනය
அபிப்பிராயங்களை தெரிப்பதற்கான இறுதித்திகதி
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Draft Sri Lanka Standard
MICROBIOLOGICAL TEST METHODS FOR WATER
PART 6: DETECTION AND ENUMERATION OF *LEGIONELLA*
SECTION 2: QUANTIFICATION OF *LEGIONELLA SPP.* AND /OR *LEGIONELLA PNEUMOPHILA*
BY CONCENTRATION AND GENIC AMPLIFICATION BY QUANTITATIVE POLYMERASE
CHAIN REACTION (QPCR)
(DSLS 1461 Part 6 / Section 2:.....)

ජලය සඳහා ක්ෂුද්‍ර ජීව විද්‍යාත්මක පරීක්ෂණ ක්‍රම සඳහා වන ශ්‍රී ලංකා ප්‍රමිති කෙටුම්පත
6 වන කොටස - *Legionella* හඳුනා ගැනීම සහ ගණනය කිරීම.
2 කාණ්ඩය : සාන්ද්‍රණය සහ ජාන විස්තාරණය කිරීම මගින් ප්‍රමාණාත්මක පොලිමරේස් දාම ප්‍රතික්‍රියාව (qPCR) යොදා
ගනිමින් *Legionella spp* සහ/හෝ *Legionella pneumophila* ප්‍රමාණ කිරීම
(ශ්‍රී ලංකා ප්‍රමිති කෙටුම්පත 1461 - 6 වන කොටස/2 කාණ්ඩය:)

මෙම කෙටුම්පත ශ්‍රී ලංකා ප්‍රමිතියක් ලෙස නොසැලකිය යුතු මෙන් ම භාවිතා නොකළ යුතු ද වේ.
இவ்வரைவு இலங்கைக் கட்டளையெனக் கருதப்படவோ அன்றிப் பிரயோகிக்கப்படவோ கூடாது
This draft should not be regarded or used as a Sri Lanka Standard.

අදහස් එවිය යුත්තේ : ශ්‍රී ලංකා ප්‍රමිති ආයතනය, 17, වික්ටෝරියා පෙදෙස, ඇල්විටිගල මාවත, කොළඹ 08.

Comments to be sent to: SRI LANKA STANDARDS INSTITUTION, 17, VICTORIA PLACE,
ELVITIGALA MAWATHA, COLOMBO 08.

නැඳින්වීම

මෙම ශ්‍රී ලංකා ප්‍රමිති කෙටුම්පත , ශ්‍රී ලංකා ප්‍රමිති ආයතනය විසින් සකසන ලදුව, සියලුම උදෙසාගේ අංශ වලට තාක්ෂණික විවේචනය සඳහා යටත් ලැබේ.

අදාළ අංශ හැර කමිටු මාර්ගයෙන් ආයතනයේ මහා මණ්ඩල වෙත ඉදිරිපත් කිරීමට පෙර , ලැබෙන සියලුම විවේචන ශ්‍රී ලංකා ප්‍රමිති ආයතනය විසින් සලකා බලා අවශ්‍ය වෙනස්කම් කෙටුම්පත සංශෝධනය කරනු ලැබේ.

මෙම කෙටුම්පතට අදාළ යෝජනා හා විවේචන නියමිත දිනට පෙර ලැබෙන්නට සැලැස්වුවහොත් අභ්‍යන්තර සලකුණු, තවද, මෙම කෙටුම්පත පිළිගත හැකි බැව් හැඟෙන අය ඒ බව දන්වන්නේ නම් එය ආයතනයට උපකාරී වනු ඇත.

මේ පිළිබඳව එවන සියලුම ලිපි පහත සඳහන් ලිපිනයට එවිය යුතුය.

අධ්‍යක්ෂ ජනරාල්
ශ්‍රී ලංකා ප්‍රමිති ආයතනය,
17, වික්ටෝරියා පෙදෙස,
ඇල්විටිගල මාවත,
කොළඹ 08.

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Introduction

This Draft Sri Lanka Standard has been prepared by the Sri Lanka Standards Institution and is now being circulated for technical comments to all interested parties.

All comments received will be considered by the SLSI and the draft if necessary, before submission to the Council of the Institution through the relevant Divisional Committee for final approval.

The Institution would appreciate any views on this draft which should be sent before the specified date. It would also be helpful if those who find the draft generally acceptable could kindly notify us accordingly.

All Communications should be addressed to:

The Director General
Sri Lanka Standards Institution,
17, Victoria Place,
Elvitigala Mawatha,
Colombo 08.

Draft Sri Lanka Standard
MICROBIOLOGICAL TEST METHODS FOR WATER
PART 6 - DETECTION AND ENUMERATION OF *Legionella*
Section 2: Quantification of *Legionella* spp. and/or *Legionella pneumophila* by
concentration and genic amplification by quantitative polymerase chain reaction (qPCR)

DSLS 1461 Part 6/ Section 2:
(ISO/TS 12869: 2019)

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Sri Lanka

Draft Sri Lanka Standard
MICROBIOLOGICAL TEST METHODS FOR WATER
PART 6 - DETECTION AND ENUMERATION OF *Legionella*
Section 3: Quantification of *Legionella* spp. and/or *Legionella pneumophila* by
concentration and genic amplification by quantitative polymerase chain reaction (qPCR)

NATIONAL FOREWORD

This Sri Lanka Standard was approved by the Sectoral Committee on Food Products and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on

This Standard is identical with **ISO/TS 12869: 2019** Water quality — Detection and quantification of *Legionella* spp. and/or *Legionella pneumophila* by concentration and genic amplification by quantitative polymerase chain reaction (qPCR), which is published by the International Organization for Standardization (ISO).

This Standard specifies a method for the detection and quantification of *Legionella* spp. and *L. pneumophila* using a quantitative polymerase chain reaction (qPCR). It specifies general methodological requirements, performance evaluation requirements, and quality control requirements.

This standard is intended to be applied in the bacteriological investigation of all types of water (hot or cold water, cooling tower water, etc.), unless the nature and/or content of suspended matter and/or accompanying flora interfere with the determination. This interference can result in an adverse effect on both the detection limit and the quantification limit. The results are expressed as the number of genome units of *Legionella* spp. and/or *L. pneumophila* per litre of sample. The method described in this Standard is applicable to all types of water. However, some additives, such as chemicals used for water treatment, can interfere with and/or affect the sensitivity of the method.

Terminology and conventions:

The text of the International Standard has been accepted as suitable for publication, without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards. Attention is therefore drawn to the following:

- a) Wherever the words “International Standard” appear referring to this Standard, it should be interpreted as “Sri Lanka Standard”.
- b) The comma has been used throughout as a decimal marker. In Sri Lanka Standards it is the current practice to use the full point on the base line as the decimal marker.

c) Wherever page numbers are quoted, they are ISO page numbers.

CROSS REFERENCES

International Standard

ISO 19458, Water quality — Sampling for
microbiological analysis

Corresponding Sri Lanka Standard

SLS 1642 Part 10 Methods for sampling of
water - Sampling for microbiological analysis.

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