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# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **LABORATORIO DE BIOTOXINAS UDEC**

BARRIO UNIVERSITARIO SIN NUMERO, FACULTAD DE CS NATURALES Y OCEANOGRAFICAS  
LABORATORIO DE BIOTOXINAS, CONCEPCION, 4070386, CHILE

### **Testing Laboratory TL-862**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date January 1, 2027

Effective Date June 26, 2024



*International Accreditation Service*  
Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## LABORATORIO DE BIOTOXINAS UDEC

[www.biotoxinasudec.cl](http://www.biotoxinasudec.cl)

**Contact Name** Dr. Allisson Astuya

**Contact Phone** +1-56-041-220-7107

**Accredited to** ISO/IEC 17025:2017

**Effective Date** June 26, 2024

| FIELDS OF TESTING       | MATERIAL/MATRIX      | DETERMINANT(S)/ANALYTE(S)                                                                                                                                                                                                                                                                                                                                                                             | METHOD REFERENCE                                                                                                                                                                                                                                                |
|-------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental – Biology | Shellfish - Mollusca | Biotoxin:<br>- GTX 1&4 - Gonyautoxin 1 & 4<br>- NEO - Neosaxitoxin<br>- dcNEO - Decarbamoylneosaxitoxin<br>- GTX 2&3 - Gonyautoxin 2 & 3<br>- STX - Saxitoxin<br>- GTX 5 or B1 - Gonyautoxin 5, also known as B1<br>- dcSTX - Decarbamoylsaxitoxin<br>- dcGTX 2&3 - Decarbamoylgonyautoxin 2 & 3<br>- C1 & C2 - N-sulfocarbamoylgonyautoxins 1 & 2<br>- GTX 6 or B2 - Gonyautoxin 6, also known as B2 | AOAC 2005.06 . Paralytic shellfish poisoning (PSP)                                                                                                                                                                                                              |
|                         | Seafood              | Domoic acid                                                                                                                                                                                                                                                                                                                                                                                           | Quilliam M.A. et al. 1995. Journal of AOAC International 78(2):543-554 . Rapid extraction and cleanup for liquid chromatographic determination of domoic acid in unsalted seafood                                                                               |
|                         | Shellfish - Mollusca | Lipophilic marine toxins:<br>- DTX 2 - Dinophysistoxin-2<br>- YTX - Yessotoxin<br>- DTX 1 - Dinophysistoxin-1<br>- AZA 2 - Azaspiracid-2<br>- AZA 1 - Azaspiracid-1<br>- PTX 2 - Pectenotoxin-2<br>- AZA 3 - Azaspiracid-3<br>- OA - Okadaic Acid (Ácido Okádico)<br>- HOMO-YTX (Homo-Yessotoxin)                                                                                                     | PT-03 Rev 00 06/2023 based on:<br><br>EU-Harmonised Standard Operating Procedure for determination of Lipophilic marine biotoxins in molluscs by LC-MS/MS. Version 5, January 2016. Determination of lipophilic toxins in bivalve mollusks (VDM) LC-MSMS method |

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