

Eurofins Melbourne Laboratory is now NATA accredited for Organotins

Analysis of Monobutyltin; Dibutyltin; Tributyltin (TBT); Tributyltin oxide (TBTO) in environmental samples

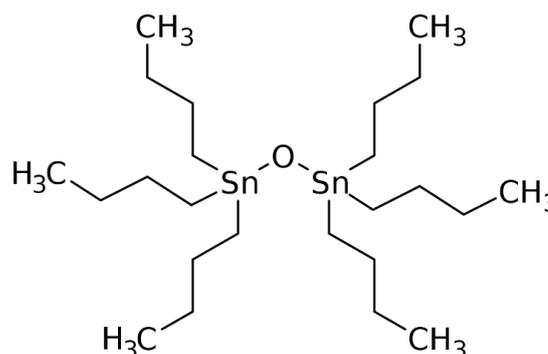
Eurofins Environment Testing Melbourne laboratory is [NATA accredited](#) for organotins using an innovative technique of liquid chromatography combined with inductively coupled plasma mass spectrometer (LC-ICP-MS).

Eurofins is the first laboratory to be accredited by NATA using LC-ICP-MS that offers a number of advantages over traditional methodologies that involve derivatisation before analysis thus eliminating potential sources of uncertainty in the final result that can reduce analysis time significantly without compromising the quality or the detection limits. Matrices accredited are Biosolids; Ground waters; Leachates; Saline waters; Sediments; Soils; Surface waters; Waste waters and Waters for potable and domestic purposes.



Eurofins Environment Testing is able to report levels of tributyltin as tin or as tributyltin or as tributyltin oxide (TBTO) as this is required by the Victorian EPA's [1828.2: Waste disposal categories – characteristics and thresholds](#). TBTO (CAS 56-35-9) has the structure $Bu_3Sn-O-SnBu_3$, formula $C_{24}H_{54}OSn_2$ and molecular weight 596.1. Individual tributyltin compounds cannot be identified separately in the environment however free tributyltin is measured and its values are converted stoichiometrically into tributyltin oxide for comparison with these regulatory limits.

Other decree values such as the Australia & New Zealand *Guidelines for Fresh & Marine Water Quality* set their default guideline values with respect to the tin content viz tributyltin as Sn so it is important to get the correct results reported to meet these regulatory requirements. The structure of TBTO is shown below noting that there are actually two tin atoms in the molecule.



You are assured of receiving legally defensible data with consistent fast turnaround times every time. Our service network now supports you in your organotin work across all of Australia through our National network of laboratories and offices on both the east and west coasts. Quality encompasses more than just error-free and defensible data; our industry leading program incorporates technical guidance and expertise to ensure that your results meet regulatory requirements.

Logistics

If you want an organotin testing facility that you can trust, choose Eurofins Environment Testing for quality analysis, superior customer service, and consistent reliability. If you would like to discuss logistical details for your upcoming projects then please contact your local Analytical Service Manager or one of our Business Development Team.

Technical advice is available by contacting the experts at EnviroTechnical@eurofins.com or for quotations/business development EnviroSales@eurofins.com

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Laboratories

Melbourne	+61 3 8546 5000
Sydney	+61 2 9900 8400
Perth	+61 8 6253 4444
Mayfield East	+61 2 4968 8448
www.eurofins.com.au/environmental-testing/	

Brisbane	+61 7 3902 4600
Auckland	+64 9 579 2669
Christchurch	+64 3 343 5227

Offices

Adelaide	+61 8 8154 3100
Wollongong	+61 2 9900 8492
Darwin	+61 8 8154 3103
Newcastle	+61 2 9900 8490
Geelong	+61 3 8564 5000