

## ACCREDITATION NO: 492

### Universal Scientific Laboratory Pty Ltd

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FACILITIES: Public testing service

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**This facility complies with the requirements of ISO/IEC 17025:2005**

#### 7.01 Metals and alloys

##### .01 Ferrous materials

Analysis of steel, stainless steel, cast irons and high temperature alloys listed as determination(s) by technique(s) using method(s) - Aluminium (total); chromium; copper; manganese; molybdenum; nickel; silicon; titanium; vanadium by AAS (flame) using in-house A30 M100  
Carbon; sulfur by Dumas combustion using in-house P016  
Aluminium (total); chromium; copper; manganese; nickel; vanadium by AAS (flame) using ASTM E350, E352 and E353  
Phosphorus; silicon by UV-Vis spectrophotometric using ASTM E351, E352 and E353  
Nitrogen by classical using in-house A30 M72

##### .11 Copper and copper alloys

listed as determination(s) by technique(s) using method(s) - Aluminium by classical using in-house A30 M23  
Aluminium; antimony; arsenic; bismuth; iron; magnesium; nickel; silicon; tellurium; tin; zinc by AAS (flame) using in-house A30 M100  
Cadmium by AAS (flame) using AS 1515.5 and in-house A30 M100  
Chromium by AAS (flame) using in-house A30 M100  
Copper by classical using BS 1748.2 and in-house A30 M21  
Copper by gravimetric using ASTM E53 and E121  
Lead by AAS (flame) using AS 1515.1 and in-house A30 M100  
Lead by classical using BS 1748.12  
Manganese by AAS (flame) using AS 1515.2 and in-house A30 M100  
Phosphorus by UV-Vis spectrophotometric using BS 1748.8 and in-house A30 M25  
Silicon by UV-Vis spectrophotometric using BS 1748.7  
Sulfur by Dumas combustion using in-house P016  
Tellurium by classical using ASTM E121  
Tin by classical using BS 1748.6 and in-house A30 M22

##### .12 Aluminium and aluminium alloys

listed as determination(s) by technique(s) using method(s) - Chromium; copper iron; lead; magnesium; manganese; nickel; silicon; tin; titanium; zinc by AAS (flame) using in-house A30 M100  
Silicon by UV-Vis spectrophotometric using BS 1728.2

**.13 Tin and tin alloys**

listed as determination(s) by technique(s) using method(s) -

Antimony by classical using in-house A30 M01

Antimony; arsenic; bismuth; cadmium; copper; gold; iron; lead; nickel; selenium; silver; zinc by AAS (flame) using AS 2292.2 and in-house A30 M100

Antimony; arsenic; bismuth; cadmium; copper; gold; iron; nickel; silver by AES (arc-spark, spark) using in-house P03-S

Arsenic by classical using in-house A30 M02

Sulfur by Dumas combustion using in-house P016

Tin by classical using AS 2292.1 and in-house A30 M04

**.14 Lead and lead alloys**

listed as determination(s) by technique(s) using method(s) -

Antimony by classical using AS 1671.1, 2 and 3 and in-house A30 M01

Aluminium; antimony; arsenic; bismuth; cadmium; calcium; cobalt; copper; iron; lead; manganese; nickel; selenium; silver; tellurium; tin; zinc by AAS (flame) using in-house A30 M100

Aluminium; antimony; arsenic; bismuth; cadmium; calcium; cobalt; copper; iron; lead; manganese; nickel; selenium; silver; sulfur; tellurium; tin; zinc by AES (arc-spark, spark) using in-house P03-S

Arsenic by classical using in-house A30 M02

Tin by classical using AS 1671.4 and in-house A30 M04

**.16 Zinc and zinc alloys**

listed as determination(s) by technique(s) using method(s) -

Aluminium by classical using AS 1329.1

Aluminium by AAS (flame) using AS 1329.3 and in-house A30 M100

Cadmium; iron by AAS (flame) using AS 1329.8 and in-house A30 M100

Copper by AAS (flame) using AS 1329.6 and in-house A30 M100

Lead by AAS (flame) using AS 1329.7 and in-house A30 M100

Magnesium by AAS (flame) using AS 1329.2 and in-house A30 M100

Manganese; nickel; tin by AAS (flame) using in-house A30 M100

**7.08 Corrosion tests****.02 Dezincification tests**

listed as determination(s) by technique(s) using method(s)-

Susceptibility of brass to dezincification by classical using AS 2345; ISO 6509; BS EN 1254-2 Annex A

**7.71 Biological monitoring****.02 Elements**

Analysis of blood

listed as determination(s) by technique(s) using method(s) -

Lead by AAS (graphite furnace) using in-house USL P201 and AS 4090

**7.81 Constituents of the environment****.35 Leachate procedures**

Analysis of solid waste

listed as determination(s) by technique(s) using method(s) -

Collection of leachates for the determination of inorganic contaminants by in-house P70

**7.84 Residues and contaminants in constituents of the environment****.01 Elements**

Analysis of leachates

listed as determination(s) by technique(s) using method(s) -

Antimony; arsenic; beryllium; cadmium; chromium; iron; lead; molybdenum; nickel; selenium; silver

by AAS (flame) using APHA 3111 and in-house P70

**Accreditation No: 492**  
(Scope Last Changed 19/08/16 )

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