

CERTIFICATE OF ACCREDITATION



Flinders Cook (Technical Services) Ltd

Client Number 460

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Telephone 09 360-2077

www.flinderscook.co.nz

Authorised Representative

Mr Jeffrey Lee
Laboratory Manager

Programme

Chemical Testing Laboratory

Accreditation Number 558

Initial Accreditation Date 7 June 1995

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

Petrochemicals


- 2.15 Petrochemicals and Related Products
- 2.16 Solvents
- 2.34 Fats, Oils and Waxes

Foods

- 2.31 Foods

Agricultural Materials

- 2.36 Agricultural Products and Agricultural Materials

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Flinders Cook (Technical Services) Ltd
 Chemical Testing Laboratory
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Petrochemicals

2.15 Petrochemicals and Related Products

- (a) **Waxes, petrolatums, white oils and similar products**
- (b) **Antifreeze and de-icing fluids**
- (g) **Petrochemical feedstocks**

2.16 Solvents

The following tests in accordance with current additions of ASTM methods except where otherwise indicated:

D86 (Manual Method)
 Distillation of petroleum products

D93A
 Flash point by Pensky-Martens Closed Tester

D611
 Aniline point and mixed point of petroleum products and hydrocarbon solvents

D1078
 Distillation range of volatile organic liquids

D1613
 Acidity in volatile solvents and chemical intermediates used in paint, varnish, lacquer and related products


D1722 (modified)
 Water miscibility of water-soluble solvents

In-house (PC1)
 Karl-Fisher Determination of Water Content

D4052
 Density and relative density of liquids by Digital Density Meter

IP170 (modified)
 Flash point (Abel)

In-house (PC29)
 Quantitative estimation of purity of solvents by gas chromatography

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2.34 Fats, Oils and Waxes

Determination of amount of oil on filter papers

In-house (GL91) based on ISO 8573.2:2018 Annex C

Foods

2.31 Foods

(b) Edible oils, fats and their products (including tallow)

Free Fatty Acids (Tallow/Vegetable Oil)	AOCS Ca 5a-40
Iodine Value (Tallow/Vegetable Oil)	In-house based on AOCS Cd 1-25
Insoluble Impurities (Tallow/Vegetable Oil)	AOCS Ca 3-46
Moisture Content (Tallow/Vegetable Oil)	In-house (PC1)
Peroxide Value (Vegetable Oil)	AOCS Cd 8-53

Agricultural Materials

2.36 Agricultural Products and Agricultural Materials

(i) Other agricultural products and related materials

Ammonium phosphate – assay	USP
Ammonium phosphate – IR identification	USP
Ascorbic acid – assay	USP
Ascorbic acid – IR identification	USP
Ascorbic acid – loss on drying	In-house
Citric acid anhydrous– assay	USP
Citric acid anhydrous – IR identification	USP
Citric acid anhydrous – moisture	In-house (PC1)
Malic acid – assay	USP
Malic acid – IR identification	USP
Potassium bicarbonate – assay	USP
Potassium bicarbonate – IR identification	USP
Potassium bicarbonate – loss on drying	USP
Tartaric acid – assay	USP
Tartaric acid – IR identification	USP

References:

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AOCS American Oil Chemists' Society
ASTM American Society for Testing and Materials
IP Institute of Petroleum
USP United States Pharmacopeia

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Operations Manager
Authorisation:

A handwritten signature in black ink, appearing to read 'A. H. O. M. S.', is written over a white background.

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