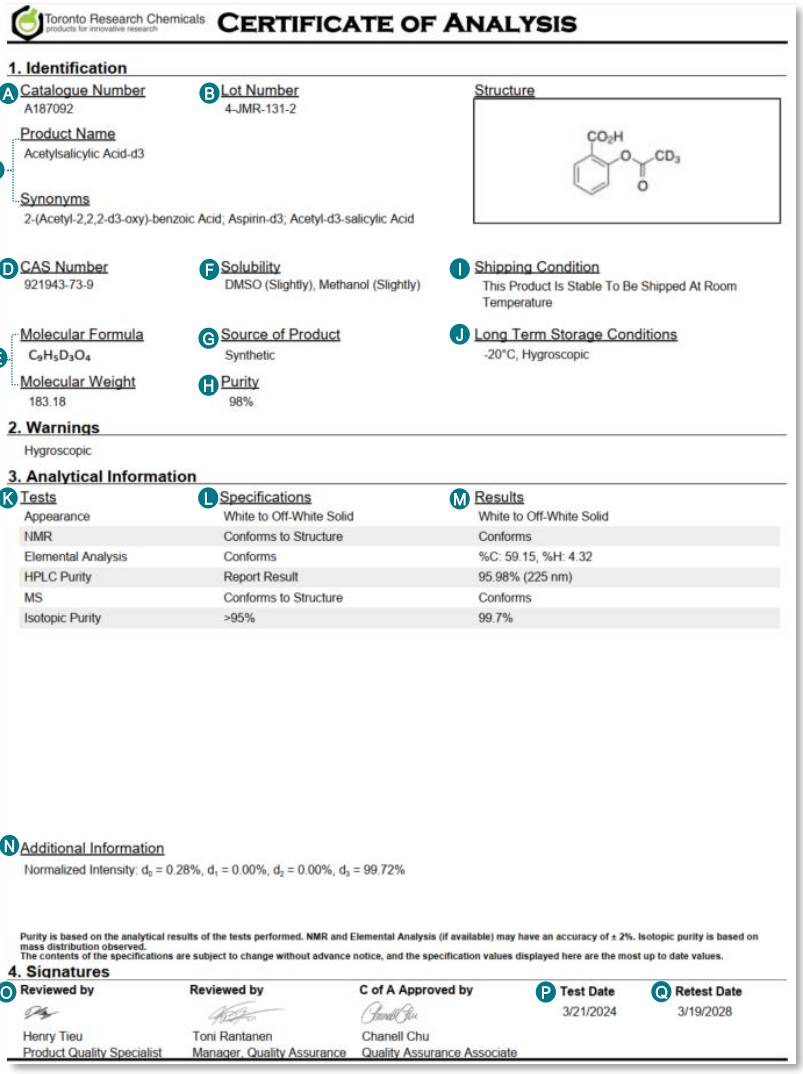
How to read your Certificate of Analysis

Every product you receive comes with a TRC Certificate of Analysis (CoA), which provides a full description of the material to which it relates, as well as a summary of all the analytical results of the tests performed



Toronto Research Chemicals — products for innovative research

CERTIFICATE OF ANALYSIS

1. Identification

(A) Catalogue Number: A187092

(B) Lot Number: 4-JMR-131-2

Structure

(C) Product Name: Acetylsalicylic Acid-d3

Synonyms: 2-(Acetyl-2,2,2-d3-oxy)-benzoic Acid; Aspirin-d3; Acetyl-d3-salicylic Acid

(D) CAS Number: 921943-73-9

(F) Solubility: DMSO (Slightly), Methanol (Slightly)

(I) Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

(E) Molecular Formula: $C_9H_5D_3O_4$

(G) Source of Product: Synthetic

(J) Long Term Storage Conditions: -20°C, Hygroscopic

Molecular Weight: 183.18

(H) Purity: 98%

2. Warnings

Hygroscopic

3. Analytical Information

(K) Tests	(L) Specifications	(M) Results
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 59.15, %H: 4.32
HPLC Purity	Report Result	95.98% (225 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.7%

(N) Additional Information

Normalized Intensity: d_0 = 0.28%, d_1 = 0.00%, d_2 = 0.00%, d_3 = 99.72%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.
The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

(O) Reviewed by	Reviewed by	C of A Approved by	(P) Test Date	(Q) Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	3/21/2024	3/19/2028
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		

FAQs about our CoAs

What are TRC products classified as? What is the grade?
TRC products are considered research chemicals and/or analytical standards for qualitative analysis. They are intended for research purposes and not for *in vivo* use.

How does TRC assess purity? Why do some CoAs list more than one purity value?
TRC provides an estimation of overall purity in Section 1 of the CoA (H). The purity is given on a dry basis and does not consider any residual solvents and water content. The HPLC or GC purity is provided in Section 3 (M), if the test is suitable for the given product. Additionally, some labelled materials will have the isotopic purity reported to assess isotopic enrichment.

Are there additional analytical tests available if required?
Yes, we offer a range of additional analytical tests to meet your specific research needs. You may order TGA, FT-IR, KF, UV-VIS, CNMR or 2D NMR. Elucidation reports and qNMR may also be an option, although these would be assessed on a case-by-case basis.

If you require additional copies of our Certificates of Analysis (CoA), simply visit our website at lgcstandards.com/TRC or contact us at techsupport.trc@lgcgroup.com for more information

SECTION 1. IDENTIFICATION

A. Catalogue Number
Unique TRC identification number of the product

B. Lot Number
Unique TRC identification number for the specific lot of the product

C. Product Name/Synonyms
These are the chemical name(s) associated with this product

D. CAS Number
Unique identification number for the product assigned by the Chemical Abstracts Service

E. Mol. Formula/Weight
Molecular formula and molecular weight of the product

F. Solubility
List of solvent(s) tested for the solubility of the product

G. Source of Product
The origin of the material (if available)

H. Purity
The assigned purity for the specific lot of the product based on 1H NMR, HPLC, and Elemental Analysis (if applicable) with an accuracy of +/- 2%

I. Shipping Condition
The recommended shipping condition of the product

J. Long Term Storage Conditions
The recommended long term storage temperature of the product

SECTION 2. WARNINGS

Any precautions and handling recommendations will be indicated here, if applicable.

SECTION 3. ANALYTICAL INFORMATION

K. Tests
The type of analytical test performed

L. Specifications
Any specifications of the analytical test

M. Results
The result obtained from the analytical test

N. Additional Info.
Other relevant information about the product

SECTION 4. SIGNATURES

O. Signatures
Release information

P. Test Date
The date the lot was tested and approved in MM/DD/YYYY

Q. Retest Date
The expiry date of the lot in MM/DD/YYYY