

Agilent AssayMAP Bravo



In this citation index, you will gain fast access to the bibliographic information for all the peer reviewed publications and Agilent Application notes, as of April 2025, that use the AssayMAP Bravo for Antibody Drug Conjugate sample preparation. This citation index illustrates the wide variety of ways the AssayMAP Bravo platform has been used to help generate high quality data and enable analysis on a scale that was previously considered unattainable. The peer reviewed publications and application notes are in separate sections but both are organized in reverse chronological order by publication year and within each year alphabetically. Each publication has keywords to make it easy to find publications that match your research interest. Please note that clicking on the title to each citation and application note will take you to the publication page for that citation.

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Searchable key words

Areas of study

- Antibody Drug Conjugates (15)
- Biopharma (14)
- Clinical Research (0)
- Glycans (0)
- Mechanism of Action (0)
- Pharmacokinetics (7)
- Proteomics (1)

Techniques

- Evosep Tip Loading (0)
- Immunocapture (12)

AssayMAP cartridge type used

- C18-5 (Reversed Phase-5 μ L resin bed) (0)
- C18-25 (Reversed Phase-25 μ L resin bed) (0)
- PAW-5 (Protein A-5 μ L resin bed) (3)
- PAW-25 (Protein A-25 μ L resin bed) (0)
- PGW (Protein G) (1)
- RPS-5 (Reversed Phase-small pore-5 μ L resin bed) (0)
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- SAW-25 (Streptavidin-25 μ L resin bed) (0)
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AssayMAP application used

- Affinity Purification (12)
- Fractionation (0)
- In-Solution Digestion (4)
- On-Cartridge Reaction (3)
- Peptide Cleanup (0)
- Protein Cleanup (0)

Note: the number in parentheses by each key word is the number of peer reviewed publications plus the number of Agilent Application notes associated with this key word

AssayMAP Bravo published peer reviewed citations

2024

Intact quantitation of cysteine-conjugated antibody-drug conjugates using native mass spectrometry

Authors: Yihan Li, Yuting Wang, Vikram M. Shenoy, Shuai Niu, Gary J. Jenkins, and Hetal Sarvaiya

Journal Citation: *Rapid Communications in Mass Spectrometry* 2024, 38(15), e9774

Keywords: SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

Preclinical Characterization of Catabolic Pathways and Metabolism of ABBV-011, a Novel Calicheamicin-Based SEZ6-Targeting Antibody-Drug Conjugate

Authors: Daniel Ladrer, Christine Gu, Vince Tong, Alexander Schammel, Julia Gavriluk, Anthony Haight and Hetal Sarvaiya

Journal Citation: *Drug Metabolism and Disposition* 2024, 52(2), 135-142

Keywords: SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

2023

Diligent Design Enables Antibody-ASO Conjugates with Optimal Pharmacokinetic Properties

Authors: Tatjana Sela, Mads Mansø, Michel Siegel, Céline Marban-Doran, Axel Ducret, Jens Niewöhner, Jacob Ravn, Rainer E. Martin, Annika Sommer, Sabine Lohmann, Ben-Fillippo Krippendorff, Mette Ladefoged, Annette Indlekofer, Tom Quaiser, Florian Bueddefeld, Erich Koller, Mohamed Y. Mohamed, Tobias Oelschlaegel, Kurt V. Gothelf, Kerstin Hofer, and Felix F. Schumacher

Journal Citation: *Bioconjugate Chemistry* **2023**, 34(11), 2096-2111

Key Words: SAW-5, Affinity Purification, Antibody Drug Conjugates, Immuno-peptideomics, Proteomics, Immunocapture

2021

[Automated and Faster Affinity Capture Method for Biotransformation Assessment of Site-Specific Antibody Drug Conjugates](#)

Authors: Aarti Jashnani, Srikanth Kotapati, Madhura Deshpande, Sayumi Yamazoe, Pavel Strop, Arvind Rajpal, and Gavin Dollinger

Journal Citation: *Analytical Chemistry* **2021**, 93(13), 5371–5376

Key words: SAW-5, Affinity Purification, On-Cartridge Reaction, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

2016

[Antibody-drug conjugate bioanalysis using LB-LC-MS/MS hybrid assays: strategies, methodology and correlation to ligand-binding assays](#)

Authors: Jian Wang, Huidong Gu, Ang Liu, Alexander Kovhich, Vangipuram Rangan, Heather Myler, Linlin Luo, Richard Wong, Huadong Sun, Bonnie Wang, Heather E. Vezina, Shrikant Deshpande, Yan Zhang, Zheng Yang, Timothy Olah, Anne-Francoise Aubry, Mark Arnold, Renuka Pillutla, and Binodh DeSilva

Journal Citation: *Bioanalysis* 2016, 8(13), 1383–1401

Key words: PAW-5, PGW, SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

[Discovery of Pyrophosphate Diesters as Tunable, Soluble and Bioorthogonal Linkers for Site-Specific Antibody-Drug Conjugates](#)

Authors: Jeffrey C. Kern, Mark Cancilla, Deborah Dooney, Kristen Kwasnjuk, Rena Zhang, Maribel Beaumont, Isabel Figueroa, SuChun Hsieh, Linda Liang, Daniela Tomazela, Jeffrey Zhang, Philip E. Brandish, Anthony Palmieri, Peter Stivers, Mangeng Cheng, Guo Feng, Prasanthi Geda, Sanjiv Shah, Andrew Beck, Damien Bresson, Juhi Firdos, Dennis Gately, Nick Knudsen, Anthony Manibusan, Peter G. Schultz, Ying Sun, and Robert M. Garbaccio

Journal Citation: *Journal of the American Chemical Society* 2016, 138(4), 1430–1445

Key words: SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

2015

[An integrated multiplatform bioanalytical strategy for antibody–drug conjugates: a novel case study](#)

Authors: Heather Myler, Vangipuram S. Rangan, Jian Wang, Alexander Kozhich, Jennifer A. Cummings, Robert Neely, Donna Dail, Ang Liu, Bonnie Wang, Heather E. Vezina, Wendy Freebern, Mei-Chen Sung, David Passmore, Shrikant Deshpande, Thomas Kempe, Huidong Gu, Mark Saewert, Amy Manney, John Lute, Frank Zambito, Richard L. Wong, Steven P. Piccoli, Anne-Françoise Aubry, Renuka Pillutla, Mark Arnold, and Binodh DeSilva

Journal Citation: *Bioanalysis* **2015**, 7(13), 1569–1582

Key words: SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

Quantitative bioanalysis of antibody-conjugated payload in monkey plasma using a hybrid immuno-capture LC-MS/MS approach: Assay development, validation, and a case study

Authors: Ang Liu, Alexander Kozhich, David Passmore, Huidong Gu, Richard Wong, Frank Zambito, Vangipuram S. Rangan, Heather Myler, Anne-Francoise Aubry, Mark E. Arnold, and Jian Wang

Journal Citation: *Journal of Chromatography B* **2015**, 1002, 54–62

Key words: SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

AssayMAP Bravo Application notes

2024

Drug to Antibody Ratio Analysis of Brentuximab Vedotin in Monkey Plasma Antibody drug conjugate analysis under native conditions using Agilent AdvanceBio 6545XT LC/Q-TOF systems

Authors: Xi Qiu, Kenda L.J. Evans, Andrea Ngai, and Muhammed Naqvi

Key words: PAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

2023

Assessing Protein and Payload Stability of Antibody Drug Conjugate Brentuximab Vedotin in Monkey Plasma Using Agilent AssayMAP Brvo and Agilent 6495 Triple Quadrupole LC/MS Systems

Authors: Xi Qiu, Kenda L.J. Evans, Andrea Ngai, and Muhammed Naqvi

Key words: PAW-5, SAW-5, Affinity Purification, In-Solution Digestion, On-Cartridge Reaction, Antibody Drug Conjugates, Biopharma, Pharmacokinetics, Immunocapture

2018

A streamlined drug-to-antibody ratio determination workflow for intact and deglycosylated antibody-drug-conjugates using the Agilent AssayMAP Bravo and Agilent 6545XT AdvancedBio accurate-mass quadrupole time-of-flight LC/MS system

Authors: Jerry Han, Zach Van Den Heuvel, and Steve Murphy

Key words: SAW-5, Affinity Purification, On-Cartridge Reaction, Antibody Drug Conjugates, Biopharma, Immunocapture

2016

An Integrated Workflow for Automated Calculation of Antibody-Drug Conjugate (ADC) Drug-to-Antibody Ratio (DAR) Using Automated Sample Preparation, Agilent MassHunter Walkup, and Agilent MassHunter BioConfirm DAR Calculator Software

Authors: David L. Wong, Tanner Stevenson, and Jing Chen

Key words: In-Solution Digestion, Antibody Drug Conjugates, Biopharma

Determination of Drug-to-Antibody Ratio for Antibody-Drug Conjugates Purified from Serum Using Automated Affinity Purification, LC/MS Analysis, and Novel DAR Calculation Software

Authors: Jing Chen, Michael Bovee, Steve Murphy

Key words: SAW-5, Affinity Purification, Antibody Drug Conjugates, Biopharma, Immunocapture

2015

Drug-to-Antibody Ratio (DAR) Calculation of Antibody-Drug Conjugates (ADCs) Using Automated Sample Preparation and Novel DAR Calculator Software

Authors: Jing Chen and Steve Murphy

Key words: In-Solution Digestion, Antibody Drug Conjugates, Biopharma

Mapping the Drug Conjugation Sites of an Antibody-Drug Conjugate Using Automated Sample Preparation and LC/MS Analysis

Authors: Jing Chen and Alex Zhu

Key words: In-Solution Digestion, Antibody Drug Conjugates, Biopharma

www.agilent.com/chem/proteinsampleprep

RA250513.304

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Printed in the USA, May 16, 2025
5994-7690EN