

ABA Sponsored Publications

Nutrition

- Čad, E. M., Mars, M., Pretorius, L., van der Kruijssen, M., Tang, C. S., de Jong, H. B. T., Balvers, M., Appleton, K. M., & de Graaf, K. **2026**. The Sweet Tooth Trial: A Parallel Randomized Controlled Trial Investigating the Effects of A 6-Month Low, Regular, or High Dietary Sweet Taste Exposure on Sweet Taste Liking, and Various Outcomes Related to Food Intake and Weight Status. *The American journal of clinical nutrition*, 123(1), Article 101073. <https://doi.org/10.1016/j.ajcnut.2025.09.041> (ABA is a co-sponsor, as part of the TKI Top Sector Agri & Food scheme for public-private partnerships.)
- Čad, E. M., van der Kruijssen, M., Tang, C. S., Pretorius, L., de Jong, H. B. T., Mars, M., Appleton, K. M., & de Graaf, K. **2025**. Three independent measures of sweet taste liking have weak and inconsistent associations with sugar and sweet food intake - insights from the sweet tooth study. *Food Quality and Preference*, 130, Article 105536. <https://doi.org/10.1016/j.foodqual.2025.105536> (ABA is a co-sponsor, as part of the TKI Top Sector Agri & Food scheme for public-private partnerships.)
- Harrold, J.A., Hill, S., Radu, C. *et al.* **2024**. Non-nutritive sweetened beverages versus water after a 52-week weight management programme: a randomised controlled trial. *Int J Obes* **48**, 83–93. <https://doi.org/10.1038/s41366-023-01393-3>
- Harrold, J., S. Hill, C. Radu, P. Thomas, P. Thorp, C. Hardman, P. Christiansen, J. Halford. **2023**. Effects of non-nutritive sweetened beverages versus water after a 12-week weight loss program: a randomized controlled trial. *Obesity* 31(8):1996-2008. <https://doi.org/10.1002/oby.23796>
- Čad, E. M., Tang, C. S., Mars, M., Appleton, K. M., & de Graaf, K. **2023**. How sweet is too sweet? Measuring sweet taste preferences and liking in familiar and unfamiliar foods amongst Dutch consumers. *Food Quality and Preference*, 111, Article 104989. <https://doi.org/10.1016/j.foodqual.2023.104989> (ABA is a co-sponsor, as part of the TKI Top Sector Agri & Food scheme for public-private partnerships.)
- Čad, E. M., Tang, C. S., de Jong, H. B. T., Mars, M., Appleton, K. M., & de Graaf, K. **2023**. Study protocol of the sweet tooth study, randomized controlled trial with partial food provision on the effect of low, regular and high dietary sweetness exposure on sweetness preferences in Dutch adults. *BMC Public Health*, 23(1), Article 77. <https://doi.org/10.1186/s12889-022-14946-4> (ABA is a co-sponsor, as part of the TKI Top Sector Agri & Food scheme for public-private partnerships.)
- Lee, H.-Y., M. Jack, T. Poon, D. Noori, C. Venditti, S. Hamamji, and K. Musa-Veloso. **2021**. [Effects of Unsweetened Preloads and Preloads Sweetened with Caloric or Low/No-caloric Sweeteners on Subsequent Energy Intakes: A Systematic Review and Meta-analysis of Controlled Human Intervention Studies](#). *Advances in Nutrition*. 12(4):1481–1499, DOI: 10.1093/advances/nmaa157

- Venditti, C., K. Musa-Veloso, H.-Y. Lee, T. Poon, A. Mak, M. Darch, J. Juana, D. Fronda, D. Noori, E. Pateman, M. Jack. **2020**. [Determinants of Sweetness Preference: A Scoping Review of Human Studies](#). *Nutrients*. 12(3): 718, DOI: 10.3390/nu12030718
- Barraj, L.M., X. Bi, M.M. Murphy, C.G. Scrafford and N.L. Tran. **2019**. [Comparisons of Nutrient Intakes and Diet Quality among Water-Based Beverage Consumers](#). *Nutrients* 11: 314; doi:10.3390/nu11020314 ([Supplemental Materials](#))
- Marriott, B.P., K.J. Hunt, A.M. Malek and J.C. Newman. **2019**. [Trends in Intake of Energy and Total Sugar from Sugar-Sweetened Beverages in the United States among Children and Adults, NHANES 2003–2016](#). *Nutrients*. 11(9): 2004. [Supplementary Materials](#). doi: 10.3390/nu11092004
- Malek, A.M., J.C. Newman, K.J. Hunt, M.M. Jack, and B.P. Marriott. **2019**. [Dietary Sources of Sugars and Calories](#). *Nutrition Today*. 54(6): 296-304. doi: 10.1097/NT.0000000000000378
- Maloney, N.G., P. Christiansen, J.A. Harrold, J.C.G. Halford and C.A. Hardman. 2019. [Do low-calorie sweetened beverages help to control food cravings? Two experimental studies](#). *Physiology & Behavior*. 208: 112500
- Masic, U., J.A. Harrold, P. Christiansen, D.J. Cuthbertson, C.A. Hardman, E. Robinson, J.C.G. Halford. **2017**. [EffectS of non-nutritive sweetened beverages on appetITe during aCtive weigHt loss \(SWITCH\): Protocol for a randomized, controlled trial assessing the effects of non-nutritive sweetened beverages compared to water during a 12-week weight loss period and a follow up weight maintenance period](#). *Contemporary Clinical Trials* 53: 80-88
- Jack, M.M. **2017**. Letter to the Editor – Do Sugar-Sweetened Beverages Cause Obesity and Diabetes? *Annals of Internal Medicine*. 167(1): 72. DOI: 10.7326/L17-0192
- Peters, J.C., J. Beck, M. Cardel, H.R. Wyatt, G.D. Foster, Z. Pan, A.C. Wojtanowski, S.S. Vander Veur, S.J. Herring, C. Brill and J.O. Hill. **2016**. The effects of water and non-nutritive sweetened beverages on weight loss and weight maintenance: A randomized clinical trial. *Obesity* 24(2): 297–304. [DOI: 10.1002/oby.21327](#)
- Peters, J.C., H.R. Wyatt, G.D. Foster, Z. Pan, A.C. Wojtanowski, S.S. Vander Veur, S.J. Herring, C. Brill and J.O. Hill. **2014**. The effects of water and non-nutritive sweetened beverages on weight loss during a 12-week weight loss treatment program. *Obesity* 22 (6): 1415–1421. [DOI: 10.1002/oby.20737](#)

Ingredient and Product Safety

Preservative (Benzoates)

- Turnbull, D., M.M. Jack, P.S. Coder and J.V. Rodricks. **2021**. [Extended One-generation Reproductive Toxicity Study \(EOGRTS\) of Benzoic Acid in Sprague-Dawley Rats](https://doi.org/10.1016/j.yrtph.2021.104897). *Reg Tox Pharm.* 122: 104897. <https://doi.org/10.1016/j.yrtph.2021.104897>
- Darch, M., D. Martyn, K. Ngo and M.M. Jack. **2021**. [An updated estimate of benzoates intakes from non-alcoholic beverages in Canada and the United States](https://doi.org/10.1080/19440049.2020.1859624), *Food Additives & Contaminants: Part A*, 38(5): 701-717. DOI: 10.1080/19440049.2020.1859624
- Danika Martyn, Annette Lau, Maryse Darch & Ashley Roberts. **2017**. [Benzoates intakes from non-alcoholic beverages in Brazil, Canada, Mexico and the United States](https://doi.org/10.1080/19440049.2017.1338836), *Food Additives & Contaminants: Part A*, 34:9, 1485-1499, DOI: 10.1080/19440049.2017.1338836
- Hoffman, T.E., and W.H. Hanneman. **2017**. [Physiologically-Based Pharmacokinetic Analysis of Benzoic Acid in Rats, Guinea Pigs and Humans: Implications for dietary exposures and interspecies uncertainty](https://doi.org/10.1080/10937463.2017.1338836). *Computational Toxicology*. 3: 19-32.
- Zu, K., D.M. Pizzurro, J.E. Goodman, and T.A. Lewandowski. **2017**. [Pharmacokinetic data reduce uncertainty in the acceptable daily intake for benzoic acid and its salts](https://doi.org/10.1080/10937463.2017.1338836). *Regulatory Toxicology and Pharmacology*. 89: 83-94.

Colors

- Bates, C.A., M.J. Vincent, A.N. Buerger, A.B. Santamaria, A. Maier, M.M. Jack. **2024**. Investigating the relationship between β -carotene intake from diet and supplements, smoking, and lung cancer risk. *Food and Chemical Toxicology*, 194: 115104 <https://doi.org/10.1016/j.fct.2024.115104>
- Gentry, R., T. Greene, G. Chappell, I.A. Lea, S. Borghoff, C. Yang, J. Rathman, J.V. Ribeiro, B. Hobocienski, A. Mostrag, J.V.Rodricks and H. Clewell. **2021**. [Response to the Office of Environmental Health Hazard Assessment on comments related to Gentry et al. \(2021\)](https://doi.org/10.1016/j.fct.2021.112202) *Food and Chemical Toxicology*. 152: 112202 <https://doi.org/10.1016/j.fct.2021.112202>
- Gentry, R., T. Greene, G. Chappell, I.A. Lea, S. Borghoff, C. Yang, J. Rathman, J.V. Ribeiro, B. Hobocienski, A. Mostrag, J.V.Rodricks and H. Clewell. **2021**. [Integration of evidence to evaluate the potential for neurobehavioral effects following exposure to USFDA-approved food colors](https://doi.org/10.1016/j.fct.2021.112097). *Food and Chemical Toxicology*. Vol (151): 112097. <https://doi.org/10.1016/j.fct.2021.112097>
- Tran, N.T., L.M. Barraj, A.P. Hearty, M.M. Jack. **2020**. [Tiered Intake Assessment for Food colours](https://doi.org/10.1080/19440049.2020.1736341). *Food Additives & Contaminants Part A.*, 37:7, 1118-1134, DOI: 10.1080/19440049.2020.1736341
- Chappell, G.A., J.K. Britt, and S.J. Borghoff. **2020**. [Systematic assessment of mechanistic data for FDA-certified food colors and neurodevelopmental processes](https://doi.org/10.1016/j.fct.2020.111310). *Food and Chemical Toxicology*. 140: 111310. <https://doi.org/10.1016/j.fct.2020.111310>

Caramel Coloring (4-Methylimidazole, 4-MEI)

- Tran NL, Andersen MM, Jack MM. **2026**. An updated U.S population dietary exposure assessment for 4methylimidazole (4-MEI) from foods containing colour and from formation of 4-MEI through thermal treatment of foods. *Food Additives &*

Contaminants: Part A. Chem Anal Control Expo Risk Assess. 15:1-11. doi: 10.1080/19440049.2025.2579840. Epub ahead of print. PMID: 41542868.

- Scialli AR. **Nov 2025**. Reproductive and developmental toxicity risk assessment for 4-methylimidazole. Regul Toxicol Pharmacol. 162:105856. doi: 10.1016/j.yrtph.2025.105856. Epub 2025 May 22. PMID: 40412543.
- Borghoff, S., S. Fitch, J.Black, M.B., McMullen, M. Andersen and G. Chappell. **2021**. [A Systematic Approach to Evaluate Plausible Modes of Actions for Mouse Lung Tumors in Mice Exposed to 4-Methylimidazole](https://doi.org/10.1016/j.yrtph.2021.104977). *Regulatory Toxicology and Pharmacology*. 104977. <https://doi.org/10.1016/j.yrtph.2021.104977>
- Black, M.B., M.E. Andersen, S.N. Pendse, S.J. Borghoff, M. Streicker, P.D. McMullen. **2021**. RNA-Sequencing (transcriptomic) Data Collected in Liver and Lung of Male and Female B6C3F1 Mice Exposed to Various Dose Levels of 4-Methylimidazole for 2, 5, or 28 days. *Regulatory Toxicology and Pharmacology*. Data-in-Brief. <https://doi.org/10.1016/j.dib.2021.107420>
- Brusick, D., M.J. Aardema, W.T. Allaben, D.J. Kirkland, G. Williams, G.C. Llewellyn, J.M. Parker, M.O. Rihner. **2020**. [A weight of evidence assessment of the genotoxic potential of 4-methylimidazole as a possible mode of action for the formation of lung tumors in exposed mice](https://doi.org/10.1016/j.fct.2020.111652). *Food and Chemical Toxicology*. 145: 111652, <https://doi.org/10.1016/j.fct.2020.111652>
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- Kelty, J.S., C. Keum, V.J. Brown, P.C. Edwards, S.A. Carratt and L.S. van Winkle. **2020**. [Comparison of acute respiratory epithelial toxicity for 4-Methylimidazole and naphthalene administered by oral gavage in B6C3F1 mice](https://doi.org/10.1016/j.fct.2018.10.032). *Regulatory Toxicology and Pharmacology*. 116: 104761
- Fennell, T.R., S.L. Watson, S. Dhungana, and R.W. Snyder. **2018**. [Metabolism of 4-Methylimidazole in Fischer 344 Rats and B6C3F1 Mice](https://doi.org/10.1016/j.fct.2018.10.032). *Food Chem Toxicol* 123:181-194. doi: 10.1016/j.fct.2018.10.032
- C. Beevers and R.H. Adamson. **2016**. [Evaluation of 4-methylimidazole, in the Ames/Salmonella test using induced rodent liver and lung S9](https://doi.org/10.1002/em.21968). *Environmental and Molecular Mutagenesis* 57(1): 51–57. DOI: 10.1002/em.21968
- Cruzan, G., J.R. Harkema, H. Hosako, J.M. Wasil and F.J. Murray. **2015**. [Evaluation of the mode of action of mouse lung tumors induced by 4-methylimidazole](https://doi.org/10.1016/j.yrtph.2015.10.006). *Regulatory Toxicology Pharmacology* 73(2):501-8. doi: 10.1016/j.yrtph.2015.10.006.

Low- and no-calorie sweeteners

- Boon D, Marchitti SA, Colonna KJ, Chowdhury-Paulino IM, Li W, Berky A, Restrepo C, Jack M, Goodman JE. **2025**. A Systematic Review of Nonsugar Sweeteners and Cancer Epidemiology Studies. *Adv Nutr*.2025 Sep 30;16(12):100527. doi: 10.1016/j.advnut.2025.100527. Epub ahead of print. PMID: 41038346; PMCID: PMC12639567.
- Marchitti SA, Boon D, Jack M, Goodman JE. **2025**. Lack of Genotoxic and Carcinogenic Potential for Nonsugar Sweeteners: A Review of Animal and Mechanistic Evidence. *Adv*

Nutr. 2025 Nov 4:100552. doi: 10.1016/j.advnut.2025.100552. Epub ahead of print. PMID: 41197905.

- Elmore SA, Berry C, Bolon B, Boorman GA, Bradley AE, Cohen SM, Klaunig JE, Kluxen FM, Maronpot RR, Nyska A, Papenfuss TL, Rehg JE, Resnik DB, Rietjens IM, Rosol TJ, Suttie AW, Schoeb TR, Strupp C, Thoolen B, Weber K. **2025**. Conflicts of interest in the International Agency for Research on Cancer process of identifying carcinogenic hazards to humans. *Hum Exp Toxicol*. 2025 Jan-Dec; 44:9603271241269020. doi: 10.1177/09603271241269020. PMID: 39884676. (ABA sponsored only Elmore SA.)
- Elmore SA, Rehg JE, Schoeb TR, Everitt JI, Bolon B. **2024**. Pathologists' perspective on the study design, analysis, and interpretation of proliferative lesions in a lifetime rodent carcinogenicity bioassay of sucralose. *Food Chem Toxicol*. 188:114524. doi: 10.1016/j.fct.2024.114524. Epub 2024 Feb 28. PMID: 38428799.
- Gentry R, Greene T, Bartow H, Van Landingham C, Rodricks J, Clewell H. **2024**. Consideration of the Variability in Control Tumor Incidence Data at the Ramazzini Institute in Evaluating Treatment-Related Effects Following Chemical Exposure. *Critical Reviews in Toxicology*. 54(3), 153–173. <https://doi.org/10.1080/10408444.2024.2314056>
- Gentry R, Greene T, Clewell, HJ, III, Rodricks JV. **2023**. Critical considerations in the review of the toxicological evidence regarding the potential carcinogenicity of aspartame. *Food and Chemical Toxicology* 182:114105. doi: [10.1016/j.fct.2023.114105](https://doi.org/10.1016/j.fct.2023.114105).
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- Elmore, S.A., J.E. Rehg, T.R. Schoeb, J.I. Everitt, B. Bolon. **2023**. [Is Statistical Reevaluation of Hemolymphoreticular Neoplasms from Aspartame Studies Valid?](https://doi.org/10.1016/j.toxsci.2023.143144) *Toxicological Sciences*. 195(2): 143-144.
- Goodman, J.E., E.G. Anneser, A. Khandaker, D.N. Boon. 2023. [The role of study quality in aspartame and cancer epidemiology study reviews](https://doi.org/10.1016/j.gloepi.2023.100110). *Global Epidemiology* 5: 100110
- Elmore SA, J.E. Rehg, T.R. Schoeb, J.I. Everitt, and B. Bolon. **2023**. Pathologists' Perspective on the Study Design, Analysis and Interpretation of Proliferative Lesions in Lifetime and Prenatal Rodent Carcinogenicity Bioassays of Aspartame. *Food & Chemical Toxicology*. 171: 113504; doi: <https://doi.org/10.1016/j.fct.2022.113504>
- Borghoff, S.J., S. S. Cohen, X. Jiang, I.A. Lea, W.D. Klaren, G.A. Chappell, J.K. Britt, B.N. Rivera, N.Y. Choski, D. Wikoff. **2023**. Updated Systematic Assessment of Human, Animal and Mechanistic Evidence Demonstrates Lack of Human Carcinogenicity with Consumption of Aspartame. *Food and Chemical Toxicology*. 172: 113549. DOI: [10.1016/j.fct.2022.113549](https://doi.org/10.1016/j.fct.2022.113549)
- Lenighan, Y.M., J. Meetro, D.M. Martyn, M. Darch, L.S. Gwenter, E. Thornton, M.M. Jack. **2023**. Low-/No-Calorie Sweetener intakes from beverages – an up-to-date assessment in four regions: Brazil, Canada, Mexico and the United States. *Food Additives and Contaminants*. 40(1): <https://doi.org/10.1080/19440049.2022.2151647>
- Tran, N.T., L.M. Barraj, A. Hearty, M.M. Jack. **2021**. [Tiered Intake Assessment for Low- and No- Calorie Sweeteners in Beverages](https://doi.org/10.1080/19440049.2020.1843717). *Food Additives & Contaminants, Part A*. 38(2): 208-222, <https://doi.org/10.1080/19440049.2020.1843717>
- Lea, I.A., G.A. Chappell and D.S. Wikoff. **2021**. Overall lack of genotoxic activity among five common low- and no-calorie sweeteners: a contemporary review of the

collective evidence. Mutation Research/Genetic Toxicology and Environmental Mutagenesis. V. 868–869: 503389. <https://doi.org/10.1016/j.mrgentox.2021.503389> (Co-sponsored by both CCC and ABA)

- G.A.Chappell, M.M. Heintz, S.J.Borghoff, C.L. Doepker and D.S.Wikoff. **2021**. [Lack of potential carcinogenicity for steviol glycosides – systematic evaluation and integration of mechanistic data into the totality of the evidence](#). *Food and Chemical Toxicology*. Vol 150 (2021): 112045, <https://doi.org/10.1016/j.fct.2021.112045>
- G.A.Chappell, D.S.Wikoff, C.L. Doepker and S.J.Borghoff. **2020**. [Lack of potential carcinogenicity for acesulfame potassium – systematic evaluation and integration of mechanistic data into the totality of the evidence](#). *Food and Chemical Toxicology*. 141:111375. doi: 10.1016/j.fct.2020.111375.
- G.A.Chappell, S.J.Borghoff, L.L. Pham, C.L.Doepker, D.S.Wikoff. **2020**. [Lack of potential carcinogenicity for sucralose – systematic evaluation and integration of mechanistic data into the totality of the evidence](#). *Food and Chemical Toxicology*. 135: 110898 <https://doi.org/10.1016/j.fct.2019.110898>
- D.S. Wikoff, G.A. Chappell, S. Fitch, C.L. Doepker, and S.J. Borghoff. **2020**. [Lack of potential carcinogenicity for aspartame – systematic evaluation and integration of mechanistic data into the totality of the evidence](#). *Food and Chemical Toxicology*. 135: 110866 <https://doi.org/10.1016/j.fct.2019.110866>

Propylene Glycol/Flavoring Adjuvant

- Tran, N. L., M.M. Anderson, and M.M. Jack. **2025**. Tiered intake assessment for propylene glycol in beverages. *Food Additives & Contaminants: Part A*, 1–9. <https://doi.org/10.1080/19440049.2025.2449820>
- Lewis, A.S., S.R. Boomhower, C.M. Marsh, M.M. Jack. **2024**. Considerations for Propylene Glycol Safety. *Food and Chemical Toxicology*. 186:114460. doi: 10.1016/j.fct.2024.114460 (Co-sponsored by both IOFI and ABA)

Caffeine/Flavoring

- FEMA GRAS 29 published (**2019**) – Caffeine levels for flavorings purposes increased from 120 to 150 ppm in non-alcoholic beverages.

Caffeinated Beverages (Energy Drinks)

- Bi, X., B.J.K. Davis, L.M. Barraj, D. Srinivasan, P. Mahadev, P. Mathew, D. Mishra, C.G. Scrafford, N.L. Tran, M.M. Jack. **2023**. Beverage Consumption Patterns among U.S. Adolescents and Adults from a New 24-h Beverage Recall Survey Compared to the National Health and Nutrition Examination Survey (NHANES) 2017–2018. *Nutrients*. 15 (16), 3561; <https://doi.org/10.3390/nu15163561>
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- Tian, D.-D., S. Natesan, J.R. White Jr. and M.F. Paine. **2019**. Effects of Common CYP1A2 Genotypes and Other Key Factors on Intraindividual Variation in the Caffeine Metabolic Ratio: An Exploratory Analysis. *Clin Transl Sci* 12(1): 39-46, [doi:10.1111/cts.12598](https://doi.org/10.1111/cts.12598)

- Martyn, D., A. Lau, P. Richardson and A. Roberts. **2018**. Temporal patterns of caffeine intake in the United States. *Food and Chemical Toxicology*, 111: 71-83. <https://doi.org/10.1016/j.fct.2017.10.059>
- Borron, S.W., P.L. Foster, S.H. Watts, J. Herrera, J. Larson, R.L. Kingston, M. Forrester. **2018**. Energy drink exposures reported to Texas Poison Centers: Analysis of adverse incidents in relation to total sales, 2010-2014. *Regulatory Toxicology and Pharmacology*, 97: 1-14. <https://doi.org/10.1016/j.yrtph.2018.05.008>
- Turnbull, D., J.V. Rodricks, G.F. Mariano and F. Chowdhury. **2017**. Caffeine and Cardiovascular Health. *Regulatory Toxicology and Pharmacology*, 89: 165-185. <http://dx.doi.org/10.1016/j.yrtph.2017.07.025>
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- Wikoff D, Welsh BT, Henderson R, et al. **2017**. Systematic review of the potential adverse effects of caffeine consumption in healthy adults, pregnant women, adolescents and children. *Food Chem Toxicol*. 109(Pt 1):585-648, <http://dx.doi.org/10.1016/j.fct.2017.04.002> - ILSI NA study, ABA partially funded
- White, J.R. Jr., J.M. Padowski, Y. Zhong, G. Chen, S. Luo, P. Lazarus, M.E. Layton, S. McPherson. **2016**. Pharmacokinetic Analysis and Comparison of Caffeine Administered Rapidly or Slowly in Coffee Chilled or Hot vs. Chilled Energy Drink in Healthy Young Adults. *Clinical Toxicology*, 54:4, 308-312. <http://dx.doi.org/10.3109/15563650.2016.1146740>
- Tran, N.L., L.M. Barraj, X. Bi and Jack, M.M. **2016**. Trends and Patterns of Caffeine Consumption among US Teenagers and Young Adults, NHANES 2003 – 2012. *Food and Chemical Toxicology*, 94: 227-242. <http://dx.doi.org/10.1016/j.fct.2016.06.007>
- Adamson, R.H. **2016**. The acute lethal dose 50 (LD50) of caffeine in albino rats. *Regulatory Toxicology and Pharmacology*. 80: 274-276. [doi: 10.1016/j.yrtph.2016.07.011](https://doi.org/10.1016/j.yrtph.2016.07.011)

Packaging (Bisphenol A)

- AOAC Official Method (First Action) BPA. July **2019**. https://www.aoac.org/wp-content/uploads/2019/08/AMW-Jul_Aug-2019.pdf