



A multi-hurdle, multi-technology approach made easier.



At ARM & HAMMER[™] we think big on a microscopic level to deliver safe feed and food solutions that drive business forward. We're your #ScienceHearted, local-and-global, animal and food production team.

Multiple contact points create multiple challenges.

Poultry processors must consider many factors when choosing the right food safety program. With the constant threat of cross-contamination from multiple points of contact, it's essential to find what's right for you and your unique needs.



What if you could control pathogens with an antimicrobial that's backed by science-based research and support unavailable anywhere else?



PROTECT EMPLOYEES.

What if you had an effective antimicrobial that is well below Personal Exposure Limits (PEL)?



FACILITY-FRIENDLY.

What if that option was *not* corrosive to many common alloys in commercial processing equipment or detrimental to wastewater systems?



MULTI-HURDLE, MULTI-APPLICATION APPROACH.

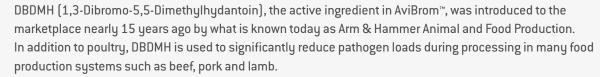
What if the antimicrobial served as an essential part of an overall multi-hurdle, multi-application food safety program?

Only AVIBROM™:

- Provides all the advantages of DBDMH technology, plus science-based research and support available from ARM & HAMMER™.
- 2 Offers pioneering technology for excellent coverage with less waste.
- Builds confidence in your overall multi-hurdle, multi-application approach.

ARM & HAMMER has more than a decade of DBDMH success.







AviBrom is safe for workers (established OSHA PEL), non-corrosive to many common alloys in commercial processing and not detrimental to wastewater.

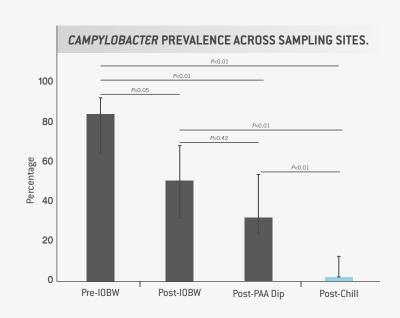
Exclusive technology and support.

Our team has supported AviBrom in the marketplace since its inception and offers a level of technology and support that's not available anywhere else. For example, we were the first to deliver simultaneous product delivery to avoid product slugs in cleaning systems—and our pioneering, patented delivery system and spray pattern technology allow for better coverage with less waste. And it's all backed by a 24-hour, 365-day service commitment.



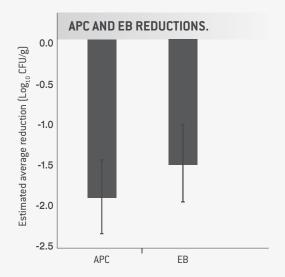
The proof is in the research.

We have conducted extensive commercial and research-based studies on the use of DBDMH in a multi-hurdle, multi-application program. For example, one study¹ found that the use of AviBrom in the inside/outside bird washer (IOBW) at 350 ppm reduced *Campylobacter* positives from 82.1% to 50% and loads by 0.78 log₁₀ cfu/mL.



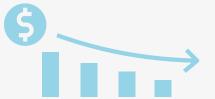
In a separate study,² significant reductions were observed in both Aerobic Plate Counts (APC) and Enterobacteriaceae (EB) on turkey parts treated with AviBrom™ spray followed by PAA in the COPE unit. The findings suggest that this combination may be an effective multi-hurdle, multi-technology process to significantly reduce APC and EB counts and improve the quality of turkey parts.

Similar studies^{3,4} in other protein groups further document the effectiveness of DBDMH technology in reducing pathogen load at processing.



Facility-friendly for long-term cost benefits.

When deciding which antimicrobial to use, it's important to consider the true cost of ownership, factoring in both variable and fixed costs. In a published study using net present value models, annual processor costs using AviBrom declined by \$174,561 compared to a traditional antimicrobial. This reflected significant equipment maintenance gains, which more than offset the additional \$0.0072/bird paid upfront to purchase the product.⁵





We're #ScienceHearted and we're here for you.

We're ever-curious farm kids turned nutritional innovators, microbial pioneers and food safety game changers. We use scientific research to unlock the power of nature to create products that focus on you, your animals and worldwide food security. To learn more about AviBrom ask your nutritionist, veterinarian or ARM & HAMMER** representative or visit AHfoodchain.com.

- 1 AviBrom Validation in IOBW. ARM & HAMMER, 2020. Study report and data on file.
- 2 AviBrom+PAA Validation on Combo Parts. ARM & HAMMER, 2020. Study report and data on file.
- 3 Bullard BR, et al. Investigation of the use of 1,3-Dibromo-5,5-Dimethylhydantoin (DBDMH) in beef harvest interventions. Center for Meat Safety and Quality, Department of Animal Sciences. Colorado State Univ. 2018.
- 4 Davis HE, González SV, Geomaras I, Delmore RJ. Validation of the Use of 1,3-Dibromo-5,5-Dimethylhydantoin (PorciBrom^{**}) in a Pork Harvest Intervention System. Center for Meat Safety & Quality, Department of Animal Sciences. Colorado State Univ. 2019. Data on file.
- 5 Tonsor, GT. Assessing Economic Value of Non-corrosive Antimicrobials in Reducing Processor's Physical Asset Costs. 2021.