



FLY LARVAE FOR AQUAFEED

PARTNERS



IN SHORT

This Food Agility CRC project sought to improve black soldier fly larvae (BSFL) production and product quality assessment for aquaculture applications through the development of rapid diagnostic tools and new compositional dataset

"The results support the use of BSFL circular economy ingredient, where organic waste streams can be converted into high-value protein for aquafeed applications. This has potential relevance for improving the environmental footprint of feed production systems while maintaining or enhancing production performance."

Tim Shepherd, Tassal

THE CHALLENGE

BSFL is a rapidly expanding sustainable alternative for converting organic waste streams into high-value protein and bioactive ingredients for use in animal feed. However, continued industry growth requires improved understanding of BSFL product quality, nutritional consistency, functional properties and applications within commercial feed systems.

OUR APPROACH

The project combined analytical chemistry, proteomics, bioinformatics and aquaculture feeding trials to evaluate BSFL products from production through to end-use applications. It has demonstrated the potential for BSFL products to contribute to sustainable circular bioeconomy systems through improved quality assessment, enhanced understanding of functional composition and validated feed applications. The integration of rapid analytical tools, molecular characterisation and aquaculture performance testing provides industry with new knowledge and pathways to support the commercial development of BSFL derived feedstock.

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