Allergen Bureau

The VITAL Program

Food Fakty eFORUM

PRESENTED BY:

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Allergen Bureau President &

BVAQ Food Safety Manager



Agenda

- About Us
- Vision and Mission
- The VITAL Program
- Ongoing Development
- Resources





Food Allergen Management Guidance

For industry, by industry

The Allergen Bureau is the peak industry body representing best practice food industry allergen management globally.

Become a member today.





Allergen Bureau

- Membership based organisation established to provide food industry with rapid responses to questions about allergen risk management in food ingredients and manufactured foods
- Established in 2005, pre-competitive, 'not-forprofit', Allergen Bureau directors provide voluntary, unpaid services

Become a member



Full Members











































































Vision & Mission

Vision: A trusted food supply for allergen sensitive consumers around the world.

Mission: Lead the global food industry in best practice allergen management, sharing information that builds trust and transparency that supports allergen sensitive consumers to make informed choices.







Accurate & Consistent Allergen Declaration

- Allergen labelling is the key method to inform a consumer of the allergen status of a product
- Appropriate allergen declaration can:
 - help allergenic consumers choose foods which do not present a personal health risk
 - positively affect a consumer's relationship with a brand
 - avoid additional compliance costs
 - avoid allergen-related product recalls & other costs



Why was the VITAL Program Developed?

- To provide a consistent method to assess and declare allergens which are not intentionally formulated into a product
- To address the needs of and protect allergic consumers
- To respond to a regulatory background where there are no regulations for assessing or declaring cross contact allergens
- Global harmonized thresholds for cross contact allergens & best practice approach for cross contact allergen risk assessment





The VITAL Program in Australia, New Zealand & the world

 Adopted by food business operators on a voluntary basis – widely used in Australia & New Zealand

• VITAL 1.0 was released in 2007

 The VITAL Program is well-known in Australia and New Zealand & acknowledged by regulatory and enforcement agencies for role as a voluntary industry guide

 The VITAL Reference Doses and the concept of Action Levels are used by regulatory and enforcement agencies in other parts of the world also





Growing International Interest

Over 2500 registered organisations use the VITAL Program

TOP 5 VITAL Online countries (as at February 2023)

- 1. Australia
- 2. Netherlands
- 3. Belgium
- 4. United Kingdom
- 5. Germany





What is the VITAL Program?

The VITAL Program provides a consistent methodology for food industry to assess the impact of allergen cross contact and provide appropriate precautionary allergen labelling on their products







VITAL Program Objective

To ensure manufactured food is safe to consume for the vast majority of food allergic consumers by providing consistent food labels that declare the presence of allergens, due to documented, unavoidable and sporadic cross contact thus enabling allergic consumers and their carers to avoid purchasing foods that may present a personal risk.







What do you need to Implement the VITAL Program?

An Allergen Management Plan includes the procedures, policies and practices contributing to the control of allergens within a food business.

ALLERGEN

MANAGEMENT

PLAN





Key Components of the Vital Program

- Cross Contact Allergens
- Reference Dose
- Reference Amount
- Action Levels
- Precautionary Allergen Labelling (PAL)







Cross Contact Allergens

- Residues or other trace amount of an allergenic food unintentionally incorporated into another food that is not intended to contain that allergen
- Also know as Unintentional Allergen Presence (UAP)
- May be present despite Good Manufacturing Practice
- Can enter a product at any point of the supply chain (harvesting, handling, storage, production, etc.)
- In the VITAL Program, it is necessary to control and manage all cross-contact allergens to the lowest practicable level
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Reference Dose

- Is the milligram protein level (total protein from an allergenic food) below which only the most sensitive (1%) of individuals in the allergic population are likely to experience an adverse reaction.
- If reactions to (unlabelled) allergens do occur from exposure below the Reference Dose they will be mild and transient, requiring no emergency medical intervention.

Approx. 8900mg protein in a 70g raw whole egg Greater than 0.2 mg of egg protein may trigger an allergic reaction



The VITAL Scientific Expert Panel

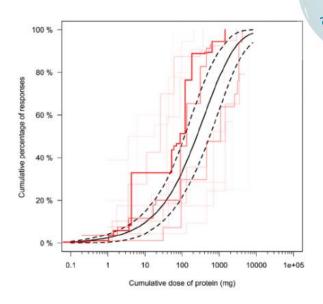
- Dr Steve Taylor (Chair of Panel) Food Allergy Research & Resource Program (FARRP) (USA)
- Dr Joseph Baumert Food Allergy Research & Resource Program (FARRP)
- Dr Geert Houben Program Manager Food Safety,
 Netherlands Organisation for Applied Scientific Research (TNO) (NL)
- Dr Rene Crevel (RENE CREVEL Consulting Ltd) (UK) (formerly of Allergy & Immunology, Unilever)
- Dr Simon Brooke Taylor (Food Safety & Risk Analysis Consultant, Allergen Bureau) (AUS)
- Dr Paul Turner Paediatric Allergy & Immunology, National Heart & Lung Institute, Imperial College (UK)





The VSEP Expertise

- over 3400 clinical data points were collated
- used statistical modelling called "Stacked Model Averaging" which incorporated 5 different statistical models to produce a single "averaged" distribution
- Reference Doses are set using ED01 – the Eliciting Dose of an allergen at which 1% of the allergic population would be likely to react





Evidence based science

- Global acceptance of VITAL Science by the food industry, regulators, consumer organisations and other stakeholder groups
- Verified, auditable, food allergen risk assessment and decision-making process that incorporates relevant VSEP findings
- Scientifically robust resources





VITAL 3.0 Reference Doses

Food	Reference Dose (mg)
Cereal containing gluten* (barley, oats, rye, wheat)	0.7
Crustacea	25
Egg	0.2
Fish	1.3
Milk	0.2
Peanut	0.2
Molluscs	None set
Sesame	0.1
Soy	0.5
Tree nuts (cashew, pistachio)	0.05
Tree nuts (walnut, pecan)	0.03
Tree nuts (almond, Brazil nut, hazelnut, macadamia nut, pine nut)	0.1



Reference Amount

The Reference Amount is the <u>maximum</u> amount of a food eaten in a typical eating occasion (never less than the serving size)

What is a typical eating occasion?

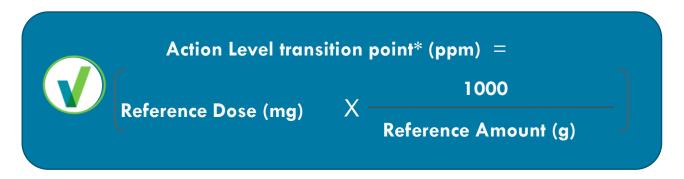
- One cake slice or two?
- One mini choc bar or a king size bar?
- Two scoops ice cream or more?





Action Levels

Action Levels are the concentrations (of protein) which define the allergen cross contact labelling outcomes



^{*} With the exception of cereals containing gluten where it is either the result from this formula or 20ppm, whichever is smaller



Action Level Thresholds in the VITAL Program

Action Level 1

low concentration of the relevant allergen under evaluation, low chance of adverse reaction

no PAL statement is required

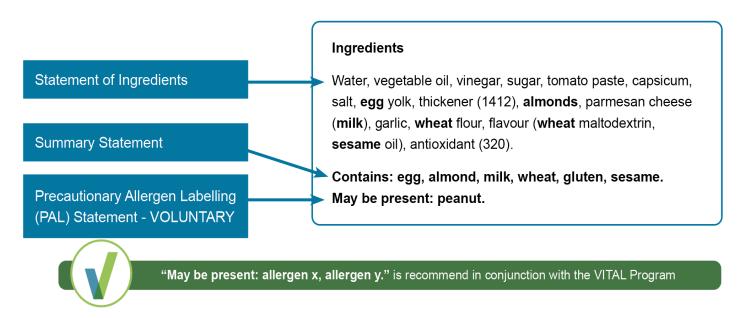
Action Level 2

significant concentration of the relevant allergen under evaluation, significant chance of adverse reaction

PAL statement is required



Recommended Labelling Format (Australian example)







Additional guidance for consistency for how to set out an allergen declaration

Ongoing Development





Reference Doses to reflect Expert panel outcomes

- ED01 or ED05?
- Stakeholder discussions have commenced on considerations for ED05 to the VITAL Program
- ED05 thresholds recommended by Ad hoc Joint FAO/WHO Expert Consultation on Risk Assessment of Food Allergens. Part 2: Review and establish threshold levels in foods of the priority allergens

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WHO Expert Consultation vs VITAL ED01

Pistachio)

Almond

Wheat

Shrimp

Fish

<u>Allergen</u>

	Consultation vs	
1		
	Walnut (& Pecan) Cashew (&	

Expert Panel

based

(FAO/WHO) ED05

2.0

3.0

5.0

200

- Egg Milk Peanut Sesame Hazelnut

Bureau FAO and WHO. 2021. Summary report of the Ad hoc Joint FAO/WHO Expert Consultation on Risk Assessment of

Food Allergens. Part 2: Review and establish threshold levels in foods of the priority allergens

0.03 0.05 0.1

0.2

0.1

0.1

0.1

0.1

0.7

1.3

25

VITAL 3.0 Reference

(mg total protein)

Dose (ED01)

Consumption Data May Inform Reference Amounts

- Food Category Consumption data rather than nominated Reference Amounts?
- Another level of consistency and robustness
- Collaboration with TNO





Voluntary Incidental Trace Allergen Labelling

The Allergen Bureau's VITAL® (Voluntary Incidental Trace Allergen Labelling) Program is a standardised allergen risk assessment process for food industry.



Our Resources





Your VITAL® Resources

- Allergen Risk Review Website
- The Food Industry Guide to the VITAL Program
- VITAL Best Practice Labelling Guide
- The VITAL Standard
- VITAL Online











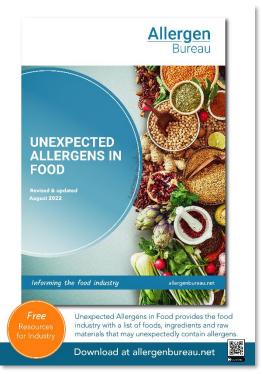
Allergen Risk Review Website

- Claims substantiation of any type needs robust risk review and focus.
- The Allergen Risk Review website (ARRW) is a freely available interactive factory map designed to assist the food industry with understanding the allergen status of its products.
- Here you can find detailed information about assessing allergen risk at every stage of the process to make food.





Resources Available









VITAL Online

- Online VITAL Calculator
- Operates on a subscription model
- Easy-to-use
- Stores, manages and updates
 VITAL risk assessments



The VITAL Standard

- Voluntary
- Consumer visibility
- Cost effective
- Internationally recognised
- Robust
- Product specific
- Auditable



VITAL® Standard

Version 10









October 2019

THANK YOU

Don't forget to tell your ideas about this presentation and share it with us!

CONTACT US:



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