Allergen Bureau

The VITAL Program

Finnish Society of Food Sciences

PRESENTED BY:

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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-for-profit', Allergen Bureau directors provide voluntary, unpaid services

Become a member



















































































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.

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Australia & New Zealand Have High Rates of Food Allergy

Rapid increase in food allergic disease in last 30 years in mainly Western countries

Food allergy affects*

- 10 % infants (up to 12 months old)
- 4 8% children (up to 5 years)
- 2 % adults (approx.)

*ASCIA www.allergy.org.au







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 and New Zealand

- Adopted by food business operators on a voluntary basis – widely used in Australia & New Zealand
- The VITAL Program is well-known in Australia and New Zealand & acknowledged by regulatory and enforcement agencies for role as a voluntary industry guide
- Supported by the Product Information Form (PIF) an industry-agreed questionnaire. The PIF is almost exclusively used in Australia as the source of information for legal and regulatory compliance for food products.





Growing International Interest

Over 2500 registered organisations use the VITAL Program

TOP 10 VITAL Online website visitors

- 1. Australia (41%)
- 2. Netherlands
- 3. New Zealand
- 4. Germany
- 5. United Kingdom
- 6. France
- 7. Belgium
- 8. Spain
- 9. United States
- 10. Italy





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



A robust allergen management plan is a pre-requisite before considering implementing the VITAL Program





Key Components of the Vital Program

Cross Contact Allergens

- Reference Dose
- Reference Amount
- Action Levels
- Precautionary Allergen Labelling







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
- 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



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 VSEP Today

The objective being to review the underpinning science around food allergen thresholds.

Members of the VSEP

- 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 Benjamin Remington** Food Allergy Research & Resource Program (FARRP) and Remington Consulting Group B.V. (NL)





Evidence based science

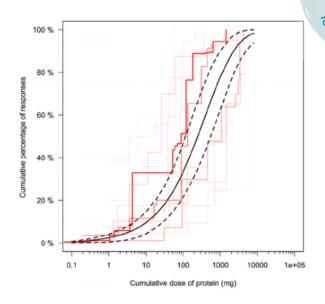
- Global acceptance of VITAL Science by the food industry, regulators, consumer organisations and other stakeholder groups
- Verified, auditable, food allergen risk assessment and decisionmaking process that incorporates relevant VSEP findings
- Scientifically robust resources





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





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)	0.2	



^{*}Action Level transition maximum point is 20ppm

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?

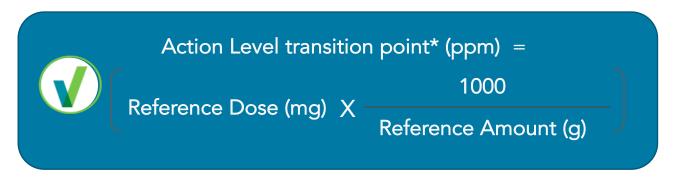
- One cake slice or two?
- One mini choc bar or a king size bar?
- Two scoops ice cream or more?





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



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



Calculating Action Level: for a product with peanut cross contact

Peanut Reference Dose = 0.2 mg protein

<u>5g</u> Reference Amount or Serving Size:

(Transition = 0.2 x 1000/5 = 40ppm)

: <40ppm Action Level 2: ≥40ppm <u>50g</u> Reference Amount or Serving Size:

 $(Transition = 0.2 \times 1000/50)$ = 4ppm)

: <4ppm Action Level 2 : ≥4 ppm

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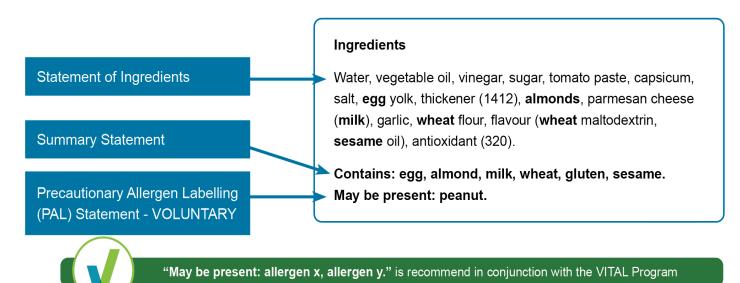
Precautionary Allergen Labelling (PAL)

- To declare the possible presence of cross contact (a residue or an amount of a food allergen that is unintentionally incorporated into another food)
- Voluntary
- Important to help consumers know what food is safe for them to eat
- Most helpful when applied consistently across industry
- May be present: allergen x, allergen y.

May contain 	May contain traces of	Packed in an environment where may be present	Made in a facility that also processes
Produced in a factory which handles	Produced on shared equipment that also processes	Made on the same production line as	Made in a production area that also uses
No nuts in ingredients, but cannot guarantee to be nut-free	Not suitable for allergy sufferers	Due to methods used in the manufacture of this product, it may occasionally contain 	May be present:



Recommended Labelling Format









Ongoing Development





Reference Doses

- ED01 or ED05?
- considerations





Consumption Data May Inform Reference Amounts

- Food Category Consumption data rather than nominated Reference Amounts?
- Another level of consistency and robustness
- Working group activity





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.



Unexpected Allergens in Food & Agricultural Co Mingling

- This document is published and freely available on our website
- Determining our next steps in this space will be important
- Ongoing collaboration and working in partnership is pivotal







Our Resources







3 Step Industry Guidance

- Food Industry Guide to Allergen Management and Labelling for Australia and New Zealand – PEAL updated edition
- 2. Allergen Bureau's Allergen Risk Review website
- 3. Food Industry Guide to the Voluntary Incidental Trace Allergen Labelling (VITAL®) Program.





Industry Guidance



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





Developed **by** industry **for** industry and is adopted on a voluntary basis



A New VITAL Online

We have responded to advances in web-based technology and embarked on a rebuild of the VITAL Online application to improve performance, manageability, and reliability of the VITAL Online platform.

You can now access the brand new VITAL Online website for the VITAL Online Calculator, as well as VITAL Science, VITAL Training, the VITAL Standard, and more, via the new VITAL Online portal.



The Food Industry Guide to the Voluntary Incidental Trace Allergen Labelling (VITAL®) Program

Access our suite of Food Industry Guides via the Allergen Bureau website.



The VITAL Standard

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



VITAL® Standard

Version 10









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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.





THANK YOU

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

CONTACT US:



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