









Si	Summary report of the Ad hoc Joint FAO/WHO Expert Consultation on Risk Assessment of Food Allergens.		
Pa	Part 1: Review and validation of Codex priority allergen list through risk assessment		
>	Criteria: prevalence, severity and potency of immune-mediated hypersensitivity of each food		
>	> Global priority allergen list:		
	 Cereals containing gluten (i.e., wheat and other Triticum species, rye and other Secale species, barley and other Hordeum sp and their hybridized strains), 	ecies	
	> crustacea,		
	> eggs,		
	> fish,		
	milk,		
	> peanuts,		
	> sesame,		
	>_soybeans,		
	 specific tree nuts (almond, cashew, hazelnut, pecan, pistachio and walnut). 		
>	> Regional: Other foods may be considered for inclusion on priority allergen lists in individual countries		
Virt	irtual meeting, 30 November – 11 December 2020, 28 January 2021, 8 February 2021, <u>More info on Part 1</u> (summary and conclusions) Food and Agriculture Organization of the United Nations	World Health Organization	
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Summary report of the Assessment of Food All	Ad hoc Joint FAO/WHO Expert Consultation on Risk ergens.
Part 3: Review and esta	blish precautionary labelling in foods of the priority allergens
> Ongoing	
<u>More info on Part 3</u> (ongoing)	Food and Agriculture Organization of the United Nations World Health
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Case study: Peanut in chili powder (0.625 ppm peanut protein)

- 2.5 ppm peanut (0.625 ppm peanut protein) or 0.00025% peanut was detected in a batch of chili powder
 - Highest possible usage (%) of chili powder was 0.88% in the final product
 - Worst case intake of 0.0011 mg peanut protein
 Jar of chili powder ~40g
 - Consumption of 4 jars leads to predicted exposure of 0.1mg peanut protein
- Based on individual data points, the two most sensitive subjects in clinical literature available at that time were reported to react to 0.1 mg peanut protein or less
- The VITAL[®] reference dose for peanut is 0.2 mg of peanut protein
 - Exposures at this level predicted to cause a reaction in up to 1% of consumers with peanut allergy

* RASFF Notification details - 2015.1103













13 SEP 2021: RASFF NOTIFICATION 2021.5745

- Traces of peanut in mild curry powder from India
- >1 mg/kg ppm (0.25 mg peanut protein/kg curry powder*)
- > RASFF Alert risk decision: Serious

https://webgate.ec.europa.eu/rasff-window/screen/notification/510633 * Assumed protein conversion needed as value listed only as 1 mg/kg

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Jar of curry powder ~40g

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13 SEP 2021: RASFF NOTIFICATION 2021.5745

- >Traces of peanut in mild curry powder from India
- >1 mg/kg ppm (0.25 mg peanut protein/kg curry powder)
- > RASFF Alert risk decision: Serious

> Measures taken: Relabelling

https://webgate.ec.europa.eu/rasff-window/screen/notification/510633;





Examples from current situation

- > Ambiguous PAL wording
- Consumer not able to determine if presence or absence of PAL is due to a risk assessment
- PAL is not a substitute for good allergen management
- > "Not suitable for" ≠ "Contains"
- Contains statement with different allergens listed than ingredient list?
- > Same production lot, different labels?



















Slides for reading

Balancing Accepted Risks and Differences of opinion

- ED01 (1% accepted risk, 99% expected level of protection) presented in VITAL 3.0, but others may wish for a different level of accepted risk...
- VITAL Scientific Expert Panel (VSEP) predicted this possibility and also presented the ED05 mg protein amounts for each allergen¹
 - > ED05 (5% accepted risk, 95% expected level of protection)
- Remington et al² presented both the ED01 (with 95% confidence intervals) and ED05 (with 95% confidence intervals) from discrete and cumulative dosing intervals for a full overview
- Ad hoc Joint FAO/WHO Expert Consultation on Risk Assessment of Food Allergens³ agreed that, for all priority allergens, the safety objective would be met by starting the definition of Reference Doses at the ED05
- Allergen Bureau, 2019. <u>http://allergenbureau.net/wp-content/uploads/2019/09/VSEP-2019-Summary-Recommendations_FINAL_Sept2019.pdf</u>
 Remington et al., 2020. <u>https://doi.org/10.1016/j.fct.2020.111259</u>
 <u>More info on Part 2.</u>(summary and conclusions)

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EU Member States

- The European Food Safety Authority (EFSA) has not derived Reference Doses for food allergens
- A number of stakeholders and national agencies have begun to adopt the use of reference doses in their risk assessment practices or analytical guidances
- > Different levels of accepted risk and different reference doses or action levels have been recommended by the following Member States
 - Germany¹ (analytical considerations to support action levels if using VITAL 3.0 Ref doses and set 100g consumption amount)
 - > Belgium² (proposed lower 95% confidence interval of ED05 for reference doses)
 - Netherlands³ (proposed most sensitive ED01 result in literature for reference doses [although an updated review/reference dose is potentially underway])
 - Czech Republich⁴ (established action levels for maximum "zero" values and maximum "trace amount" values based on analytical test kit capabilities)

 Beurteilungswerte Allergene – BVL, 2020 (in <u>German</u>), prior version (in English) Waiblinger, Schulze, 2018. <u>https://doi.org/10.5740/jaoacint.17-0383</u>
 FAVV SciCom, 2017. <u>http://www.afsca.be/wetenschappelijkcomite/adviezen/2017/ documents/Advies24-2017. SciCom2017-01. referentiedosissenallergenen.pdf</u>
 NVWA BuR0, 2016. <u>https://www.nvwa.nl/binaries/nvwa/documenten/consument/tetn-drinken-roken/averige-voedsetveiligheid/risicobeoordelingen/advice-onpreliminary-reference-doses-for-fod-allergens/Advice-preliminary-reference-idoses-f2016.pdf
 Czech State Agricultural and Food Inspection Authority, n.d. <u>https://www.szpi.gov.cz/soubor/oznacovani-alergenu-pdf.aspx</u>
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Countries of note Outside of the EU



> United Kingdom¹ (provides guidance for risk assessment but has not established regulatory thresholds)

> United States

- > No official allergen thresholds for PAL or recall situations
- However, unofficial discussions have indicated that the concentration of allergenic protein and exposure amounts are being considered in the risk assessments which determine whether to deem a recall Class I or Class II
- State of New York Recalls have begun to use action levels for Undeclared Dairy and companies have been forced to recall products, even if the label bears a PAL

> Australia

- > VITAL is supported by all stakeholders and encouraged to use, but it is still voluntary²
- > Multiple guidances exist from the Allergen Bureau
- An Australian House of Representatives Committee³ recently recommended that the Allergen Bureau in collaboration with Food Standards Australia New Zealand (FSANZ), work with the food industry to encourage the consistent use of the VTAL food allergen risk assessment program, including the introduction of a VTAL V' tick on packaging to inform consumers that a product has been through this process. >

UK Food Standards Agency, 2020. <u>https://www.food.gov.uk/business-guidance/allergen-guidance-for-food-businesses</u>
 Allen et al., 2014. <u>https://doi.org/10.1186/1939-4551-7-10</u>
 Australia House of Representatives Standing Committee on Health Aged Care and, Sport, 2020. <u>https://www.aph.gov.au/Parliamentary_Business/Committees/House/Health_Aged_Care_and_Sport/Allergiesandanaphylaxis/Report</u>

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