

# Monitoring the intake of food addtives in Austria

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## Monitoring of the intake of food additives in Austria General principal



#### Build on two pillars :





Priorisation process and practical implementation



## - National Control plan:

- every 3<sup>rd</sup> 4<sup>th</sup> market sample will be analytical monitored regarding sweeteners, preservatives, food colours,...
- —National monitoring working group:
  - additional every year different focus action for certain FA in certain products are planned (targeted samples)
  - adapting the national control plan

## Analytical data

## Criteria for target sampling monitoring



- EFSA has recently or will re-evaluated a certain food additive
- Increased exposure through new food trends
- Not enough analytical data available for a certain food category
- Analytical data is quite old (>10 years)
- RASFF notification
- Suspected food fraud
- Survey of used levels at FBO (if no accredited analytical method is available)
- High objection rate (exceeding the maximum levels, incorrect labeling,...)

## Analytical data Examples for target sampling:



- Sulfur dioxide- sulfites (E 220- 228) in white vegetables including pulses and processed mushrooms
  - 04.1.2 Peeled, cut and shredded fruit and vegetables
  - 04.1.3 Frozen fruit and vegetables
  - 04.2.1 Dried fruit and vegetables
  - 04.2.3 Canned or bottled fruit and vegetables
  - 04.2.4.1 Fruit and vegetable preparations excluding compote
- Carrageenan (E 407) and processed Eucheuma seaweed (E 407a)
  collection on use levels and the specification by the food inspectors

Analytical data Outcome



- 2023: 2237 samples of 54 different Food additives in 58 food categories were analysed at AGES and reported to EFSA (29 samples were objected)
- Time trend of the examined samples and the reason of objection







#### Reasons for objections

## Risk assessment of the intake of food addtive Reporting



Periodic report of the intake of food colours, preservatives and sweeteners for the Austrian population (children, adolescence and adults)

- "Intake of food colours, preservatives and sweeteners in Austria from 2016-2021" (Tier 3, 2022), Analytical data of 33 food categories, brand loyal vs. non brand loyal, FoodEX2 level 2-4
- "Intake of food colours, preservatives and sweeteners in Austria" (Tier 3, 2017)
- "Intake of food additives in Austria " (Tier 2, 2014)
- "Intake of food additives in Austria- selected examples" (Tier 2 and 3, 2010)

https://www.ages.at/forschung/wissen-aktuell/detail/aufnahmemengen-von-zusatzstoffen-fuer-die-oesterreichische-bevoelkerung



### Food colours

- Food colours:
  - E 102, E 104, E 110, E 122, E124, E 129, E 131, E 132, E 133, E 142, E 151
- 8 food categories: pudding, fine bakery wares, dairy ice cream and similar, confectionary including chocolate, processed fruits, seasoning, water -based beverages and wine-like drinks
- Results:
  - Quinoline Yellow (E 104): exceedance of the ADI in children (136%; high consumer, brand loyal)
  - Ponceau 4R (E 124): exceedance of the ADI in children (179%) and adolescent (110%) (high consumer, brand loyal)
  - main exposure source: fine bakery wares, water-based beverages and confectionary including chocolate



#### Preservatives

- Sorbate acid and sorbates (E 200-203):
  - 20 food categories, contributes up to 75% of the ADI
  - main exposure source: cakes, yeast leaved pastry, bread and similar products
- Benzoe acid and benzoates (E 210-213)
  - 20 food categories, contributes up to 43% of the ADI
  - main exposure source: confectionary including chocolate, soft drinks, bread and similar products
- Sulfur dioxide and sulfites (E 220-228)
  - 11 food categories, contributes up to 91% of the ADI
  - main exposure source: fruit juice and nectar, wine and wine-like drinks, processed or preserved vegetables



#### Preservatives

- Nitrite (E 249-250)
  - two main food categories: processed meat products and sausages
  - contributes up to 88.5% of the ADI
- Nitrate (E 251-252)
  - two main food categories: processed meat products and sausages
  - contributes up to 7% of the ADI



#### Sweeteners

- none of the sweeteners: Acesulfame K (E 950; 23% ADI), Aspartame (E 951; 3% ADI), Cyclamates (E 952; 67% ADI), Saccharin (E 954; 15% ADI), Sucralose (E955; 4% ADI), neohesperidine DC (E 959), neotame (E961) exceeded the ADI.
- Neohesperidine DC and neotame were not detected
- main exposure source: syrups, soft drinks, fermented milk products, confectionary including chocolate

Implementation of the upcoming EU- wide monitoring Status Quo



- Classification of food additives in high and medium priority
- Identification of relevant food categories
- Feasibility study: research on available analytical methods for high and medium priority FA
- Implementation of the monitoring program into the national official control plan
- Developing a web-based app, where FBO and Food inspectors can upload the use levels of the requested FA in certain food categories



Thank you for your attention



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