

# DIETARY EXPOSURE

The information required for a dossier submission varies depending on the nature of the food ingredient, intended use, history of consumption and estimated exposure.



## Background

Dietary exposure estimates are an essential component of all food-related dossiers, such as food additive petitions, novel food submissions, GRAS determinations, and food contact material notifications, as a comparison of the estimated exposure of a substance to the acceptable daily intake or available safety data forms a critical part of the risk assessment process. Accurate intake estimates are also required in health claims submissions to demonstrate that an efficacious dose can reasonably be consumed by the typical consumer.

## Your Challenge

Dietary exposure estimates may not be limited to proposed food uses. An assessment of background intakes is an important step in establishing a case of need to justify the addition of substances to foods. You also may have to consider currently approved uses, natural occurrence in foods, and intake through dietary supplements.

Increasingly, regulatory authorities are requesting that submissions include a comprehensive assessment of intake from all sources. Therefore it is vital to establish reliable estimates of exposure to the food ingredient of interest in an acceptable format.

## Our Solutions

Intertek Health, Environmental & Regulatory Services (HERS) offers the expertise necessary to provide reliable advice in the area of dietary exposure.

## Our services include:

- Selection of the most appropriate food uses and representative food codes for your ingredient;
- Estimation of dietary exposure based on a range of methodologies and the most up-to-date international food consumption databases;
- Estimation of background intakes of food ingredients and nutrients from all sources;
- Calculation of theoretical parameters such as mean and percentile dietary exposure estimates based on international regulatory requirements;
- Determination of acute and chronic estimates of dietary exposure for all age groups within the total population as required; and
- Integration of dietary exposure estimates into safety assessments for product development or regulatory purpose.

## The Intertek Advantage

Intertek's scientific & regulatory consultants have more than 30 years of experience in conducting dietary intake assessments for Australia, Canada, the European Union and the United States. Intertek has access to the latest data for each of these jurisdictions allowing us to produce the most accurate intake estimates. With these data and our extensive in-house food composition research, we can prepare assessments of the intake resulting from all current and proposed sources of your ingredients, including dietary supplement products. We have expanded our available data sets to include intake data from China and can provide dietary intake estimates for this emerging market.

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 44,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

**Total Quality. Assured.**

## FOR MORE INFORMATION



**North America**  
Mississauga, Canada  
+1 905 542 2900

**Europe**  
Hampshire, UK  
+44 1252 392 464

**Asia**  
Beijing, China  
+86 10 5657 6600

Tokyo, Japan  
+81 3 5639 9158



food.sci-reg@intertek.com



intertek.com/food/consulting