



## 碳水化合物 和膳食纤维检测



碳水化合物的功能特性使其成为重要的食品材料。例如我们可以在各种产品中使用膳食纤维，将其作为脂肪替代品、质构和粘度改良剂、膳食纤维、益生元或甜味剂。一方面，研究认为食品中的糖类和可消化的碳水化合物（即淀粉、麦芽糊精等）与糖尿病和肥胖症等健康问题有关；另一方面，膳食纤维或益生元有助于控制体重、稳定血糖水平、降低胆固醇水平以及提升饱腹感等。消费者对更为健康、更少化学改性配料/食品逐步增长的需求，以及食品行业对品质控的日益关注，使得碳水化合物的定量和定性分析显得尤为重要。

针对食品、宠物食品、饲料、工业配料和补充剂，欧陆可以为您提供各种碳水化合物和膳食纤维分析检测，并确保优质服务。

除常规检测服务外，欧陆还可根据客户的特定需求提供定制分析和研究，与客户在项目设计和开发方面建立密切合作，例如，开发非常规检测方法，对特定产品进行方法验证，以及帮助您了解产品或产品问题(如生产加工问题)。另外，我们还根据您的需要，提供关于碳水化合物化学分析、膳食纤维和其他相关主题的培训和（科学）支持。

### 专业性

- 专业团队和最先进的检测方法
- 检测结果准确，检测周期可靠
- 检测范围涵盖各种碳水化合物和膳食纤维分析
- 根据您的要求开发和确认新检测方法
- 提供研究支持，帮助您和您的客户开发碳水化合物相关产品
- 与认证机构、食品行业以及技术协会建立合作
- 通过实验室认可（ISO 17025:2005）

### 适用基质（部分）

- 食品产品
- 食品配料
- 功能性食品
- 婴儿食品
- 婴儿配方食品
- 早餐谷物
- 乳制品
- 烘焙食品
- 宠物食品
- 动物饲料
- 生物基材料

### 检测能力

欧陆提供各种常规的碳水化合物检测。其中：

- 常规分析（总糖分、总碳水化合物、糖组分等）
- 淀粉分析（总淀粉、抗性淀粉、损伤/胶状淀粉等）
- 膳食纤维
- 益生元（菊粉/低聚果糖、低聚半乳糖、聚葡萄糖等）
- 特殊碳水化合物（凝胶、唾液酸、帕拉金糖、海藻糖、棉子糖/水苏糖/毛蕊花糖等）
- 指纹分析（菊粉/低聚果糖、聚葡萄糖、低聚半乳糖、淀粉水解物）
- 添加低分子量膳食纤维和/或益生元的特定产品的营养评估包裹







# CARBOHYDRATE AND DIETARY FIBER TESTING



Carbohydrates show functional properties that make them important ingredients. For example, they can be applied as fat replacers, texture and viscosity modifiers, dietary fibers, prebiotics, or sweeteners in a variety of products. On one hand, the presence of sugars and digestible carbohydrates (i.e. starch, maltodextrins etc.) in foodstuffs has been related to health problems such as diabetes and obesity; On the other hand, important health benefits, such as weight control, stabilization of blood glucose levels, reducing cholesterol levels, satiety etc., have been linked to carbohydrates when these are present in the form of dietary fibers or prebiotics. Customers' demand is increasing for healthier and less chemically modified ingredients and foods; simultaneously product quality control is becoming a focus point in the industry. Hence both quantitative and qualitative carbohydrate analysis show great importance.

Eurofins offers a large variety of carbohydrate and dietary fiber analytical tests and assures high quality of services on food, pet food, feed products, as well as industrially prepared ingredients and supplements.

In addition to routine testing services, Eurofins offers tailor-made analysis and research to clients, in close collaboration to design and develop projects that suit their specific needs, such as development of a new method, to perform a test that is not routinely offered, validation of a method for a specific product as well in assisting you in understanding your products or issues with your products, e.g. during production. Further, we can provide trainings and (scientific) support on carbohydrate chemistry carbohydrate analysis, dietary fibers and other related topics based on your needs.

## Expertise

- Highly qualified team and state of the art testing methods
- Accurate testing results with reliable turnaround times
- Extensive portfolio with numerous carbohydrate and dietary fiber analysis
- Development, validations and new testing methods on your request
- Research support to assist you and your clients with carbohydrate related product development
- Co-operation with certification bodies, food industry and technical associations
- Accredited laboratory (ISO 17025:2005)

## Matrices (selection)

- Food products
- Food ingredients
- Functional foods
- Baby foods
- Infant formulas
- Breakfast cereals
- Dairy products
- Bakery products
- Pet food
- Animal feed
- Bio-based materials

## Portfolio

We offer a wide portfolio of carbohydrate tests that are routinely performed. Amongst others:

- Routine analyses (total sugars, total carbohydrates, sugar profile, etc.)
- Analysis of starch (total starch, resistant starch, damaged/gelatinised starch etc.)
- Dietary fibers
- Prebiotics (inulin/fructo-oligosaccharides, galacto-oligosaccharides, polydextrose, etc.)
- Special carbohydrates (hydrocolloids, sialic acid, palatinose, trehalose, raffinose/ stachyose/ verbascose, etc.)
- Fingerprinting (inulin/FOS, polydextrose, GOS, starch hydrolysate)
- Nutritional value packages specific for products supplemented with low molecular weight dietary fibers and/or prebiotics

