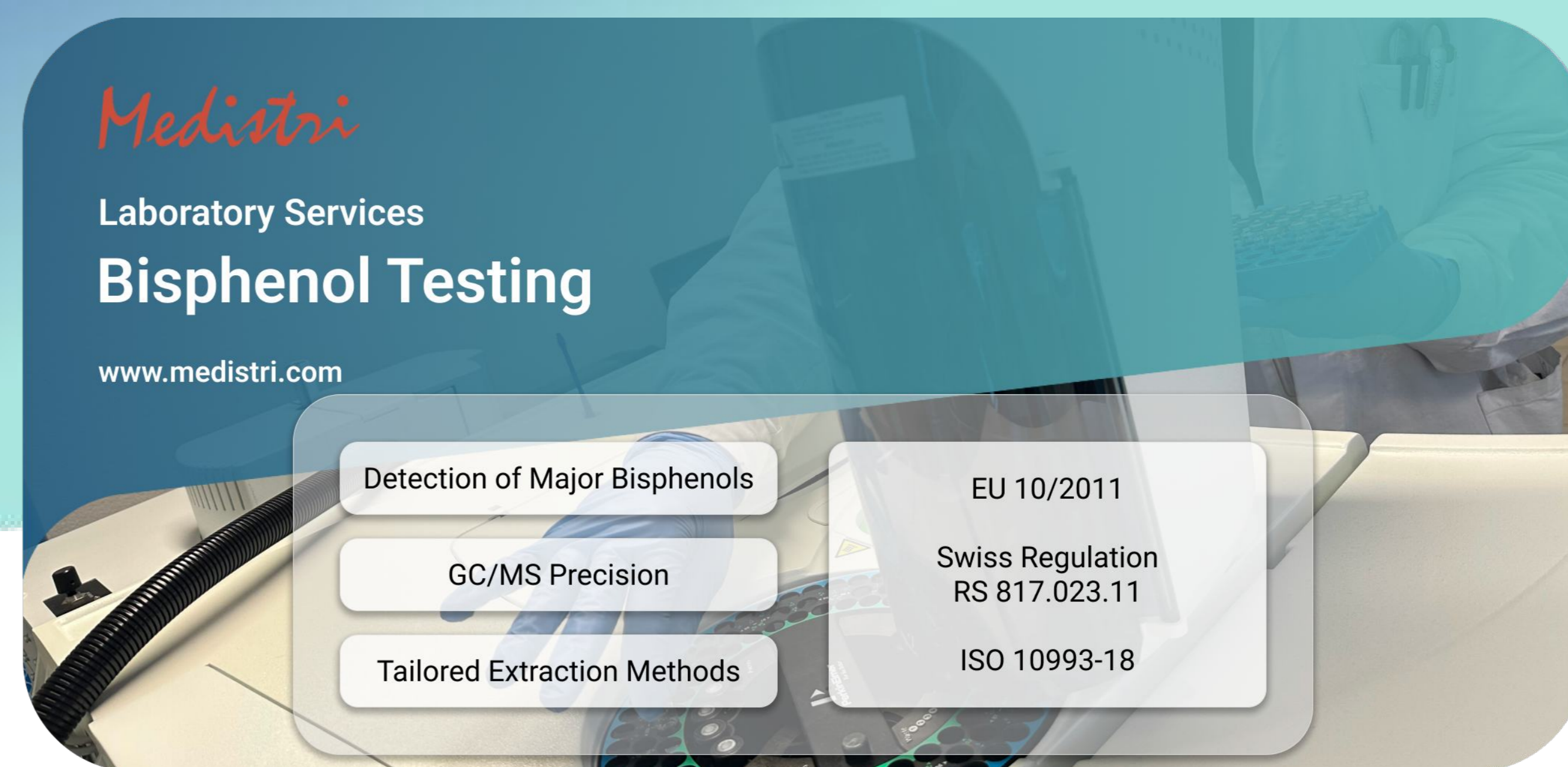


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Bisphenol Testing - Medistri

Bisphenol Testing

Bisphenols are compounds used in the industrial manufacture of plastics, as monomers of polycarbonate or as additives in epoxy resins. They form a large family made up of many substances that have similar chemical structures and uses.

However, due to their hazardous properties (many of these substances have been linked to fertility problems, hormonal disruption in humans and animals, and can even trigger skin allergies), some bisphenols are restricted within the European Union to protect both human health and the environment.

Bisphenol A (BPA) testing is crucial primarily due to its potential health impact and its widespread use in food contact materials. BPA is an endocrine disruptor that simulates estrogen in the human body. This can potentially cause a wide range of health issues, including hormonal imbalances and developmental problems. Even at very low levels, BPA can potentially cause lifelong health problems.

 Medistri can perform BPA trace level detection analysis and screening of products and materials.


A high degree of sensitivity and expertise is required. Medistri conducts this analysis using Gas chromatography/mass spectrometry (GC/MS) detection. It is a technique used to identify and/or quantify volatile organic compounds (VOC's) present in the injected headspace sample.

A sample is placed in a closed sampling vessel, heated using a known temperature profile, and the vapor in the vessel is sampled for analysis.

In the area of food contact materials, EU and Swiss regulations impose strict limits on the migration of BPA from materials to food. Switzerland's Federal Office of Public Health (OFSP) sets specific migration limits for various applications, including toys and thermal papers, putting forward stringent measures to ensure consumer safety.

The analysis method uses GC/MS technology after extraction and derivatization of 15 bisphenols. The extraction method is adapted depending on the material and context, ensuring compliance according to EU Regulation 10/2011, SR 817.023.21 in the case of food contact migration or also 817.023.11 for the conformity analysis of the material or also ISO 10993-18 in the context of chemical characterization.

Medistri offers comprehensive testing services to determine the presence of 15 major bisphenols in your products, helping to meet regulatory standards and protect consumer health.

 To learn more about our in-House Laboratory's BPA Testing and Analysis, visit on our website [here](#) or directly contact our team at contact@medistri.swiss.

- The Medistri Team

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