

Information re Ehlert KA, Beumer CWE, Groot MCE. 2008. Food Additives and Contaminants

**New study results:
Migration-level of BPA not influenced by microwaving**

In their study "Migration of bisphenol A into water from polycarbonate baby bottles during microwave heating" published online May 2008 in Food Additives and Contaminants¹ the authors Ehlert, Beumer, Groot from the internationally renowned TNO laboratory in the Netherlands investigated the migration behaviour of Bisphenol A (BPA). The study was initiated by the PC/BPA industry to generate high quality reliable data regarding BPA behaviour during microwave heating. The objective was to determine whether micro-waving as heating method had any influence on the amount of BPA migration into the liquid, compared to other heating methods for which a number of data are already publicly available. **The study confirmed that electromagnetic radiation – i.e. micro-waving – does not influence the migration level of BPA from polycarbonate into food. The levels measured were very low and well below the levels defined as acceptable by the European authorities.**

The authors used samples of 18 different baby bottles brands purchased in European shops. Before starting any testing the residual BPA level in the new bottles was measured. Then, in order to replicate normal household use as far as possible, the bottles were sterilised according to the user instructions given by the manufacturers. For the actual testing polycarbonate bottles filled with water were heated to 100°C in the microwave for 3 minutes (boiling after 2 min), the water then was cooled and used as sample. This process was repeated twice with each sample thus producing 3 specimens per sample. The measured levels of BPA migration into water were in the range of <0.1 to 0.7 µg/l (ppb). These are very low levels, and they are consistent with already available data from conventional heating methods. Statistical analysis showed no correlation between the amount of residual content of BPA in the bottles and migration of BPA in consecutive migration extracts. All levels measured were at least a factor of 800 below the specific migration limit of 0.6 mg/kg as specified for BPA by the European Commission.

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¹ Ehlert KA, Beumer CWE, Groot MCE. 2008. Migration of bisphenol A into water from polycarbonate baby bottles during microwave heating. Food Additives and Contaminants DOI: 10.1080/02652030701867867