

## **Exposure of the U.S. Population to Bisphenol A and *tertiary*-Octylphenol: 2003-2004**

### **Supplemental Material**

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The following is available as Supplemental Material: Table including analyte name, abbreviated name, LOD, and precision data for BPA and 4-t-OP (Table 1); table including the observed statistical significance values for differences between geometric mean concentrations of BPA depending on the time of collection of the urine sample (Table 2); table including the adjusted least square geometric mean concentrations (and 95% confidence intervals) of BPA in various demographic groups when examination session time is included in the regression model (Table 3); table including the observed statistical significance values for differences between adjusted least squares geometric mean concentrations of BPA for various demographic groups when examination session time is included in the model (Table 4).

Table 1. Analyte name, abbreviation, limit of detection (LOD), and precision data for BPA and tOP<sup>a</sup>

Analyte	Abbreviation	LOD	Precision <sup>b</sup>	
			QCL	QCH
Bisphenol A	BPA	0.4	3.5 (13.3)	22.3 (11.4)
4- <i>tert</i> -octylphenol	tOP	0.2	5.1 (25.1)	18.4 (16.8)

<sup>a</sup> All concentrations are given in  $\mu\text{g/L}$ . <sup>b</sup> Mean concentration (coefficient of variation [%]) of repeated measurements over time of quality control urine materials of low (QCL) and high (QCH) concentrations.

Table 2. Observed statistical significance values for differences between geometric mean concentrations of BPA in  $\mu\text{g/L}$ <sup>a</sup> depending on the time of collection of the urine sample

	All ages	Children and adolescents	Adults
	<i>P</i> value	<i>P</i> value	<i>P</i> value
Morning vs. afternoon	0.0134 (0.04)	0.18 (0.175)	0.015 (0.09)
Morning vs. evening	0.6 (0.3)	0.81 (0.75)	0.7 (0.34)
Afternoon vs. evening	0.0317 (0.11)	0.2 (0.2)	0.06 (0.16)

<sup>a</sup> In parentheses are the *P* values for the comparisons of creatinine-adjusted concentrations

Table 3. Adjusted least square geometric mean concentrations (and 95% confidence intervals) of BPA (in  $\mu\text{g/L}$ ) in various demographic groups when examination session time is included in the model

Variable		LSGM (95% CI)
Sex	Male	2.6 (2.4–2.8)
	Female	2.9 (2.6–3.1)
Race/ethnicity	Mexican American:Morning collection	2.1 (1.7–2.5)
	Mexican American:Afternoon collection	2.4 (2.0–2.9)
	Mexican American:Evening collection	2.5 (1.8–3.6)
	Non-Hispanic white:Morning collection	2.9 (2.7–3.1)
	Non-Hispanic white:Afternoon collection	2.4 (2.1–2.7)
	Non-Hispanic white:Evening collection	3.2 (2.6–4.1)
	Non-Hispanic black:Morning collection	3.2 (2.9–3.5)
	Non-Hispanic black:Afternoon collection	2.9 (2.4–3.4)
	Non-Hispanic black:Evening collection	2.7 (2.3–3.3)
Age group	6–11 years	4.4 (3.9–5.0)
	12–19 years	3.0 (2.7–3.3)
	$\geq 20$ years	2.5 (2.3–2.7)

Household income < \$20,000	3.1 (2.8–3.5)
\$20,000–\$45,000	2.8 (2.6–3.1)
> \$45,000	2.5 (2.3–2.7)

Table 4. Observed statistical significance values for differences between adjusted least squares geometric mean concentrations of BPA for various demographic groups when examination session time is included in the model

Difference	<i>P</i> value
Females vs. males	0.052
Morning vs afternoon : Mexican Americans	0.173
Morning vs evening : Mexican Americans	0.21
Afternoon vs evening: Mexican Americans	0.813
Morning vs afternoon : non-Hispanic whites	0.008
Morning vs evening : non-Hispanic whites	0.226
Afternoon vs evening : non-Hispanic whites	0.037
Morning vs afternoon : non-Hispanic blacks	0.169
Morning vs evening : non-Hispanic blacks	0.053
Afternoon vs evening : non-Hispanic blacks	0.53
Children vs. adolescents	<0.001
Children vs. adults	<0.001
Adolescents vs. adults	0.003
< \$20,000 vs. \$20,000-\$45,000	0.182

< \$20,000 vs. > \$45,000 0.002

\$20,000-\$45,000 vs. > \$45,000 0.040