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Title: Current approaches in sample preparation for trace analysis of selected endocrine disrupting compounds. focus on polychlorinated biphenyls, alkylphenols and parabens.

Author: Tomasz Grzeškowiak, Beata Czarczyńska-Goślińska, Agnieszka Zgoła-Grzeškowiak

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1 **Current approaches in sample preparation for trace analysis of selected**  
2 **endocrine disrupting compounds. Focus on polychlorinated biphenyls,**  
3 **alkylphenols and parabens.**

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5 Tomasz Grześkowiak<sup>1</sup>, Beata Czarczyńska-Goślińska<sup>2</sup>, Agnieszka Zgoła-Grześkowiak<sup>1\*</sup>

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7 <sup>1</sup> Institute of Chemistry and Technical Electrochemistry, Poznan University of Technology,  
8 Berdychowo 4, 60-965 Poznań, Poland,

9 <sup>2</sup> Department of Pharmaceutical Technology, Poznan University of Medical Sciences,  
10 Grunwaldzka 6, 60-780 Poznań, Poland

11  
12 **Highlights**

- 13 • Sample preparation methods for isolation of endocrine disruptors were presented  
14 • **Methods for polychlorinated biphenyls, alkylphenols and parabens are included**  
15 • **Ultrasonic assisted and pressurised liquid extraction dominate for solid matrix**  
16 • **Solid-phase extraction and microextraction dominate for liquid matrix**  
17 • **Trends include new sorbents, simplification and green chemistry approach**

18  
19 **Abstract**

20 Endocrine disrupting compounds (EDC) belong to the most widely analyzed chemicals.  
21 This review covers three different groups of these compounds: polychlorinated biphenyls,  
22 alkylphenols and parabens with the last group belonging to suspected EDC. Current trends in  
23 sample preparation of these compounds include usage of different techniques aiming mainly  
24 at simplification of procedures and low solvent consumption. Pressurised liquid extraction  
25 and ultrasonic assisted extraction are the main techniques used for isolation of EDC from the

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