



BSI Standards Publication

Water quality — Detection of selected congeners of polychlorinated dibenzo-*p*-dioxins and polychlorinated biphenyls — Method using a flow immunosensor technique

National foreword

This British Standard is the UK implementation of ISO 23256:2023.

The UK participation in its preparation was entrusted to Technical Committee EH/3/2, Physical chemical and biochemical methods.

A list of organizations represented on this committee can be obtained on request to its committee manager.

The UK committee voted against approval of ISO 23256:2023 on the grounds that its application might be limited in scope.

ISO 23256:2023 describes a technique for the detection of polychlorinated dibenzo-p-dioxins (PCDDs), dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs) in environmental waters and states that it allows a more cost-effective and timely measure than the traditional techniques involving high-resolution mass spectrometry (HRMS).

However, the technique is only based on the determination of two congeners (2, 3, 7, 8-TCDD and 3,3', 4,4', 5-PCB), with no current application to PCDFs. The method also includes the same lengthy sample extraction and clean up stages as the original HRMS method. Furthermore, the end-point determination using flow immunoassay involves a complex procedure and delivers relatively high LOD/LOQ when compared with BS ISO 18073:2004.

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