



Centre de toxicologie / INSPQ

# Biological Reference Material

## - Evaluation Report -

**AM-S-W2409**

Biological matrix : Serum      Date of publication : 2028-01-01  
Expiration date :

| MATERIAL NUMBER | ANALYTE GROUPING             | ANALYTE            | ASSIGNED VALUE | UNIT | STANDARD UNCERTAINTY * | N  |
|-----------------|------------------------------|--------------------|----------------|------|------------------------|----|
| AM-S-W2409      | Brominated flame retardants  | PBDE IUPAC # 100   | 0.135          | µg/L | 0.00506                | 12 |
|                 |                              | PBDE IUPAC # 153   | 0.143          | µg/L | 0.00791                | 13 |
|                 |                              | PBDE IUPAC # 154   | 0.128          | µg/L | 0.00478                | 12 |
|                 |                              | PBDE IUPAC # 183   | 0.167          | µg/L | 0.0158                 | 10 |
|                 |                              | PBDE IUPAC # 209   | 0.235          | µg/L | 0.0414                 | 3  |
|                 |                              | PBDE IUPAC # 28    | 0.108          | µg/L | 0.00246                | 9  |
|                 |                              | PBDE IUPAC # 47    | 0.176          | µg/L | 0.00598                | 13 |
|                 |                              | PBDE IUPAC # 99    | 0.133          | µg/L | 0.00589                | 12 |
|                 | Organochlorinated pesticides | Hexachlorobenzene  | 0.233          | µg/L | 0.00700                | 14 |
|                 |                              | Oxychlordane       | 0.213          | µg/L | 0.00553                | 11 |
|                 |                              | p,p'-DDE           | 0.752          | µg/L | 0.0268                 | 15 |
|                 |                              | p,p'-DDT           | 0.176          | µg/L | 0.00957                | 13 |
|                 |                              | β-HCH              | 0.190          | µg/L | 0.00750                | 11 |
|                 |                              | trans-Nonachlor    | 0.250          | µg/L | 0.00964                | 11 |
|                 |                              | Heptachlor         | 0.116          | µg/L | 0.00918                | 4  |
|                 |                              | Heptachlor epoxide | 0.127          | µg/L | 0.00620                | 5  |
|                 |                              | Dieldrin           | 0.136          | µg/L | 0.0216                 | 6  |
|                 |                              | Mirex              | 0.659          | µg/L | 0.0322                 | 7  |
|                 |                              | cis-Nonachlor      | 0.430          | µg/L | 0.0224                 | 6  |
|                 | PCB congeners                | PCB IUPAC # 105    | 0.102          | µg/L | 0.00285                | 12 |
|                 |                              | PCB IUPAC # 118    | 0.179          | µg/L | 0.00469                | 15 |
|                 |                              | PCB IUPAC # 138    | 0.204          | µg/L | 0.00692                | 10 |
|                 |                              | PCB IUPAC # 153    | 0.239          | µg/L | 0.00963                | 14 |
|                 |                              | PCB IUPAC # 170    | 0.186          | µg/L | 0.00737                | 13 |
|                 |                              | PCB IUPAC # 180    | 0.244          | µg/L | 0.00764                | 16 |
|                 |                              | PCB IUPAC # 28     | 0.256          | µg/L | 0.0120                 | 15 |
|                 |                              | PCB IUPAC # 74     | 0.188          | µg/L | 0.00988                | 12 |
|                 |                              | PCB IUPAC # 99     | 0.175          | µg/L | 0.00739                | 13 |
|                 |                              | PCB IUPAC # 52     | 0.0889         | µg/L | 0.00282                | 13 |
|                 |                              | PCB IUPAC # 101    | 0.0847         | µg/L | 0.00452                | 14 |
|                 |                              | PCB IUPAC # 183    | 0.103          | µg/L | 0.00457                | 13 |
|                 |                              | PCB IUPAC # 187    | 0.112          | µg/L | 0.00605                | 13 |

\* Standard uncertainty (µx): characteristic of the dispersion of results used to calculate the assigned value; expressed in the same format as the standard deviation.



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