



Centre de toxicologie / INSPQ

# Biological Reference Material

## - Evaluation Report -

**AM-S-W2306**

Biological matrix : Serum      Date of publication : 2028-04-23  
Expiration date :

| MATERIAL NUMBER | ANALYTE GROUPING             | ANALYTE            | ASSIGNED VALUE | UNIT | STANDARD UNCERTAINTY * | N  |
|-----------------|------------------------------|--------------------|----------------|------|------------------------|----|
| AM-S-W2306      | Brominated flame retardants  | PBDE IUPAC # 100   | 0.0741         | µg/L | 0.00578                | 11 |
|                 |                              | PBDE IUPAC # 153   | 0.104          | µg/L | 0.00520                | 12 |
|                 |                              | PBDE IUPAC # 154   | 0.0713         | µg/L | 0.00461                | 12 |
|                 |                              | PBDE IUPAC # 183   | 0.134          | µg/L | 0.0109                 | 10 |
|                 |                              | PBDE IUPAC # 209   | 0.151          | µg/L | 0.0304                 | 4  |
|                 |                              | PBDE IUPAC # 28    | 0.0817         | µg/L | 0.00497                | 11 |
|                 |                              | PBDE IUPAC # 47    | 0.178          | µg/L | 0.00696                | 13 |
|                 |                              | PBDE IUPAC # 99    | 0.0771         | µg/L | 0.00321                | 12 |
|                 | Organochlorinated pesticides | Hexachlorobenzene  | 0.194          | µg/L | 0.00868                | 16 |
|                 |                              | Oxychlorane        | 0.148          | µg/L | 0.00483                | 12 |
|                 |                              | p,p'-DDE           | 0.776          | µg/L | 0.0123                 | 15 |
|                 |                              | p,p'-DDT           | 0.152          | µg/L | 0.00529                | 14 |
|                 |                              | β-HCH              | 0.162          | µg/L | 0.00680                | 14 |
|                 |                              | trans-Nonachlor    | 0.142          | µg/L | 0.00514                | 12 |
|                 |                              | Heptachlor         | 0.0510         | µg/L | 0.00496                | 8  |
|                 |                              | Heptachlor epoxide | 0.0762         | µg/L | 0.00538                | 7  |
|                 |                              | Dieldrin           | 0.0776         | µg/L | 0.00417                | 6  |
|                 |                              | Mirex              | 0.409          | µg/L | 0.0112                 | 11 |
|                 |                              | cis-Nonachlor      | 0.451          | µg/L | 0.0173                 | 8  |
|                 | PCB 101                      | PCB IUPAC # 101    | 0.131          | µg/L | 0.00217                | 16 |
|                 | PCB 183                      | PCB IUPAC # 183    | 0.0551         | µg/L | 0.00225                | 14 |
|                 | PCB 187                      | PCB IUPAC # 187    | 0.0750         | µg/L | 0.00190                | 14 |
|                 | PCB 52                       | PCB IUPAC # 52     | 0.0675         | µg/L | 0.00340                | 14 |
|                 | PCB congeners                | PCB IUPAC # 105    | 0.0605         | µg/L | 0.00252                | 14 |
|                 |                              | PCB IUPAC # 118    | 0.147          | µg/L | 0.00251                | 18 |
|                 |                              | PCB IUPAC # 138    | 0.164          | µg/L | 0.0101                 | 11 |
|                 |                              | PCB IUPAC # 153    | 0.191          | µg/L | 0.00586                | 16 |
|                 |                              | PCB IUPAC # 170    | 0.161          | µg/L | 0.00459                | 14 |
|                 |                              | PCB IUPAC # 180    | 0.104          | µg/L | 0.00279                | 18 |
|                 |                              | PCB IUPAC # 28     | 0.216          | µg/L | 0.00842                | 18 |
|                 |                              | PCB IUPAC # 74     | 0.143          | µg/L | 0.00696                | 14 |
|                 |                              | PCB IUPAC # 99     | 0.146          | µg/L | 0.00523                | 14 |



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|--------------------|---------------------|-------------------|-------------------|------|---------------------------|---|
| AM-S-W2306         | Serum lipids        | Total Cholesterol | 1.96              | g/L  | 0.122                     | 3 |
|                    |                     | Total lipids      | 6.16              | g/L  | 0.542                     | 3 |
|                    |                     | Triglycerides     | 1.70              | g/L  | 0.0405                    | 3 |

\* Standard uncertainty ( $\mu$ x): 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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