

## OCCURRENCE OF PHARMACEUTICAL COMPOUNDS IN GROUNDWATER FROM THE GRAN CANARIA ISLAND (SPAIN)

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### Supplementary Material

Table S1. Mass spectrometer parameters to detect the target analytes.

| Compound     | Precursor ion (m/z) | Cone (V) | Fragment ions (collision potential, V) |
|--------------|---------------------|----------|----------------------------------------|
| Nicotine     | 163.2               | 30       | 83.9 (22.5), 79.8 (21.5)               |
| Atenolol     | 267.3               | 56       | 145 (23.5), 190 (16.5)                 |
| Metamizole   | 218.1               | 40       | 56.1 (12.5), 97 (11.5)                 |
| Paraxanthine | 181.2               | 52       | 123.9 (17)                             |
| Caffeine     | 195.1               | 30       | 138 (18)                               |
| Fluoxetine   | 310.3               | 30       | 44.1 (6.5), 148 (5.5)                  |
| Permethrin   | 310.3               | 36       | 236.1 (8)                              |

Table MS2. Analytical parameters of the HPLC-ESI-MS/MS determination procedure.

| Compound     | LOD (ng·L <sup>-1</sup> ) | LOQ (ng·L <sup>-1</sup> ) | RSD (%) |
|--------------|---------------------------|---------------------------|---------|
| Nicotine     | 39.4                      | 131.2                     | 6.8     |
| Atenolol     | 12.4                      | 41.3                      | 8.5     |
| Metamizole   | 5.9                       | 19.8                      | 4.4     |
| Paraxanthine | 21.6                      | 71.9                      | 8.4     |
| Caffeine     | 2.9                       | 9.5                       | 5.9     |
| Fluoxetine   | 28.8                      | 96.0                      | 12.7    |
| Permethrin   | 31.9                      | 95.8                      | 6.1     |