# SUPPLEMENTARY MATERIAL

## Benzoylthiourea based polymers as new binding agents for diffusive gradients in thin films technique in labile mercury determination in freshwaters

Siday Marrugo-Madrid[a], Clàudia Fontàs[b], Gülşah Kurt[c], Carlos Salazar-Camacho[d], Manuel Salas-Moreno[d], Harry Gutierrez-Mosquera[d], Jose Marrugo-Negrete[e], Sergi Díez[a,*]

[a]Environmental Chemistry Department, Institute of Environmental Assessment and Water Research, IDAEA-CSIC, E-08034, Barcelona, Spain
[b]Department of Chemistry, University of Girona, C/Maria Aurèlia Capmany 69, 17003 Girona, Spain
[c]Department of Chemistry, Faculty of Arts and Sciences, Aksaray University, Aksaray, Turkey
[d]Faculty of Natural Sciences, Department of Biology, Technological University of Chocó, Quibdó, Colombia
[e]Department of Chemistry, Faculty of Sciences, University of Córdoba, Montería, Colombia

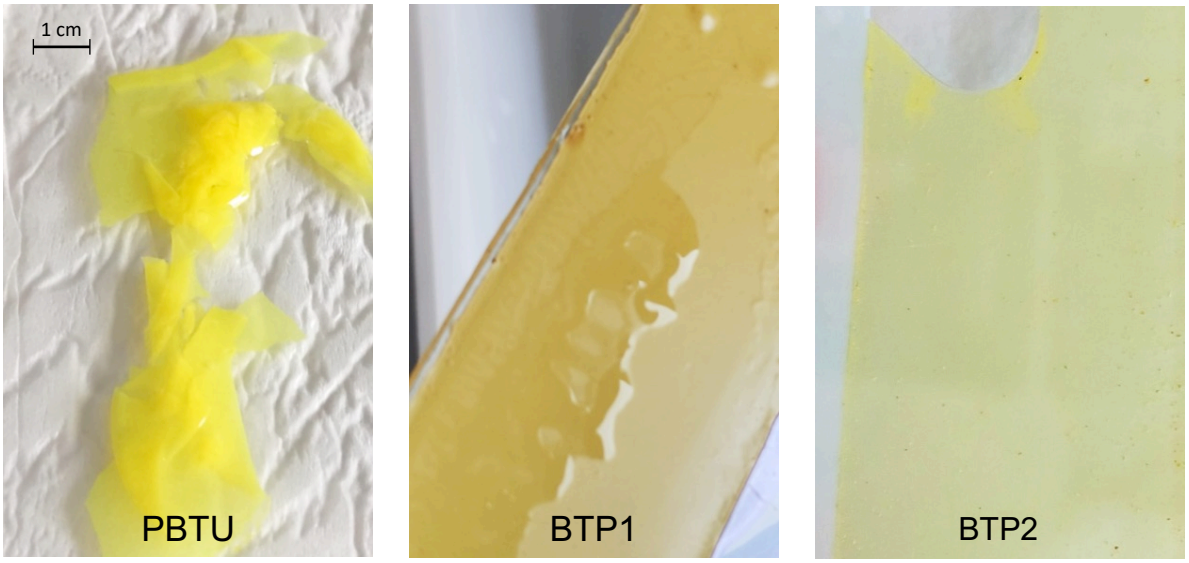


**Figure S1.** Photos of binding gels made from three polymeric materials derived from benzoylthiourea (PBTU, BTP1 and BTP2) mixed with a polyacrylamide gel solution at a ratio of 2.3% w/v

**Table S1.** Mean values ± standard deviation (SD) of physic-chemical parameter: Temperature (ºC), pH, dissolved oxygen (DO), conductivity, total dissolved solids (TDS), turbidity, and total mercury concentration in water (THg).

| Station | N | W | T (ºC) | pH | DO (mg $L^{-1}$) | Conductivity (mS $cm^{-1}$) | TDS (mg $L^{-1}$) | Turbidity (NTU) | THg in water (µg $L^{-1}$) |
|---|---|---|---|---|---|---|---|---|---|
| **S1** | 5º53.1'57.9" | 76º45'22.6" | 25.3 ± 0.2 | 8.2 ± 0.0 | 7.78 ± 0.26 | 9.5 ± 0.7 | 1.7 ± 0.1 | 253 ± 18 | 0.342 ± 0.043 |
| **S2** | 5º37'49.1" | 76º44'10.5 | 25.5 ± 0.1 | 7.1 ± 0.3 | 6.88 ± 0.04 | 11.5 ± 0.7 | 2.0 ± 0.1 | 258 ± 81 | 0.335 ± 0.040 |
| **S3** | 5º39'58.8" | 76º42'32.3" | 25.6 ± 0.1 | 6.6 ± 0.5 | 5.93 ± 0.78 | 12.0 ± 1.4 | 1.7 ± 0.1 | 255 ± 95 | 0.299 ± 0.022 |
| **S4** | 5º40'46.4" | 76º40'37.8" | 25.7 ± 0.1 | 7.2 ± 0.3 | 5.60 ± 0.21 | 12.5 ± 2.1 | 1.6 ± 0.1 | 264 ± 136 | 0.352 ± 0.044 |
| **S5** | 5º40'50.3" | 76º39'49.3 | 24.3 ± 0.5 | 7.2 ± 0.4 | 6.26 ± 0.23 | 29.0 ± 12.7 | 2.0 ± 0.3 | 394 ± 45 | 0.262 ± 0.020 |
| **S6** | 5º42'28.3" | 76º40.19.5" | 25.2 ± 0.6 | 7.5 ± 0.3 | 5.45 ± 0.76 | 13.5 ± 3.5 | 2.1 ± 0.6 | 322 ± 2 | 0.320 ± 0.036 |