

**Figure S1. Structure of gluconic acid**



**Figure S2. 1-hydroxy-4-acetaminobenzene (paracetamol)**

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**Figure S3. Representation of the facilitated extraction cell**

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**Figure S4. Mechanism of successive jumps on fixed sites during the facilitated extraction process followed for extracting paracetamol through the PIM-GA membrane**

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**Figure S5. Possible interaction sites between paracetamol and gluconic acid**

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**Figure S6. Interaction sites between paracetamol and gluconic acid (Chemdrew)**