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Eco-friendly trace analysis of silver in beer/wine samples using a new co-polymeric nanocomposite based-ultrasound assisted-cloud point extraction combined with spectrophotometry

By: Zengin, HB (Zengin, H. B.)¹; Gurkan, R (Gurkan, R.)¹

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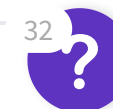
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reliable determination of total Ag in beer and wine samples. The total Ag levels were in the range of 2.5-4.2 and 2.7-5.5 µg L⁻¹ in beer and wine samples, respectively.

sion (as RSDs%, 5, 25 and 100 µg L⁻¹, respectively. From pre- and post-extraction, the recovery was 98.5%, respectively. From pre- and post-extraction, the recovery was 62.5 with sensitivity and specificity. Duplicate measurements of 100 µg L⁻¹ were validated with the outcome of the method. The method was successfully applied to the determination of total Ag in beer and wine samples in range of 2.5-4.2 and 2.7-5.5 µg L⁻¹ in beer and wine samples, respectively.

Keywords

Author Keywords: Cloud point extraction; Tris modification; Copolymer; UV-vis spectrophotometry; Silver; Beer/wine samples

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Categories/Classification

Research Areas: Chemistry; Food Science & Technology

Funding

Funding agency	Grant number
Commission of Scientific Research Projects (CUBAP) , University of Cumhuriyet, Sivas, Turkey	F604

Funding Table

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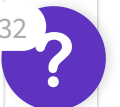
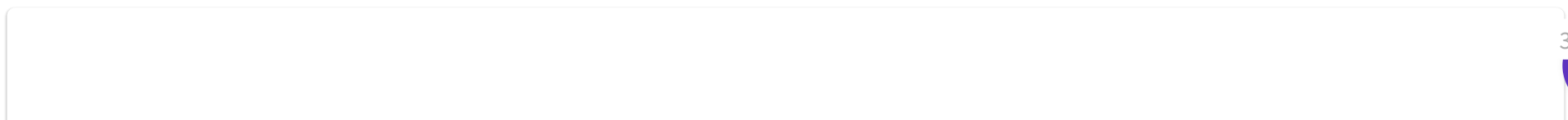
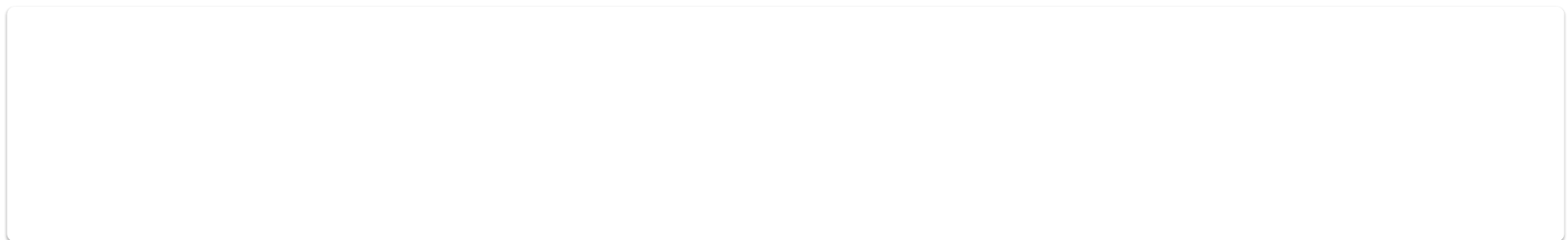
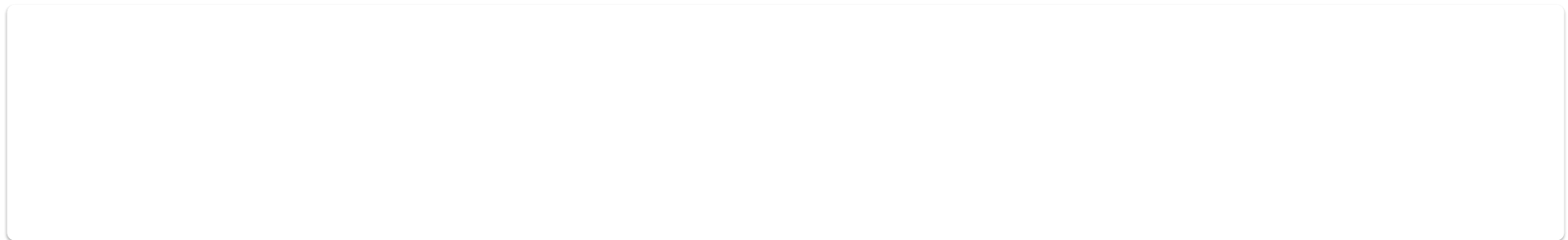
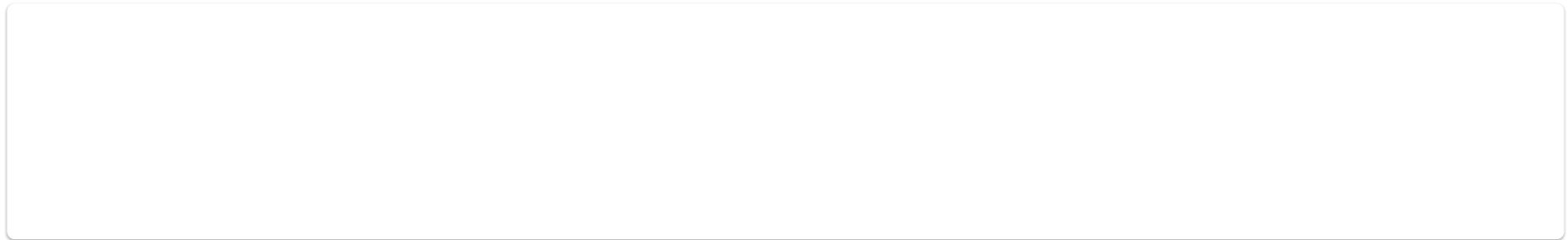
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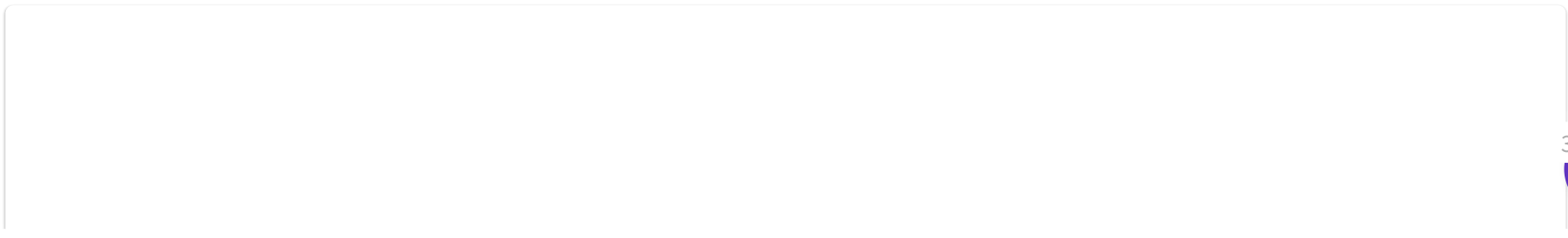
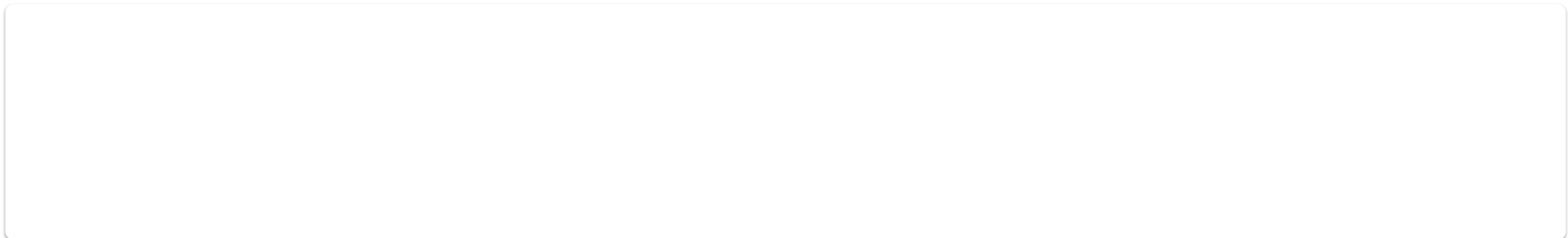
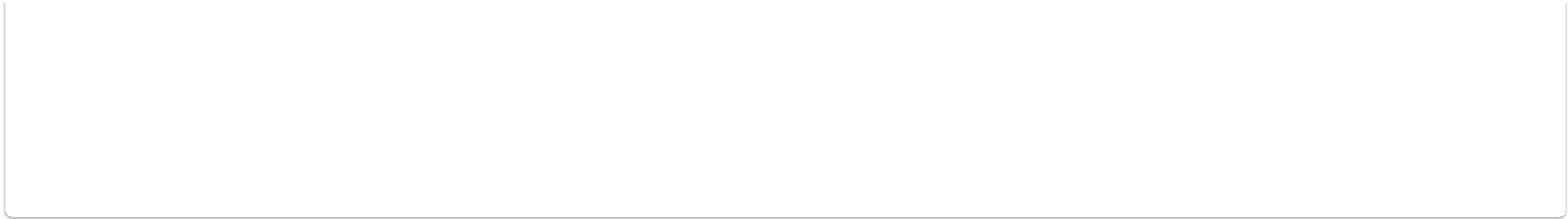
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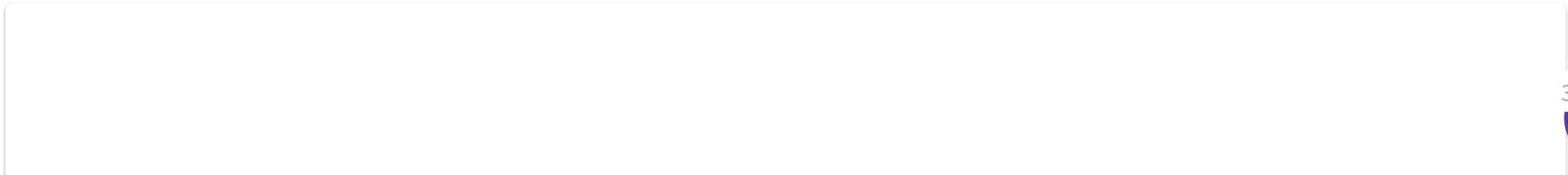
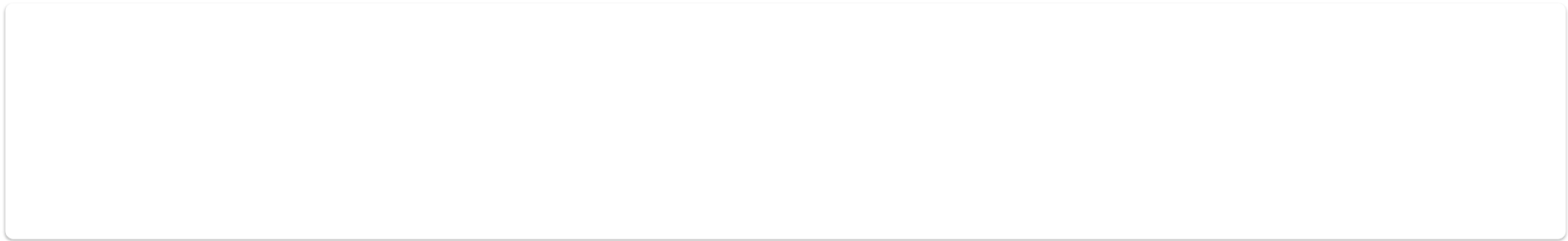
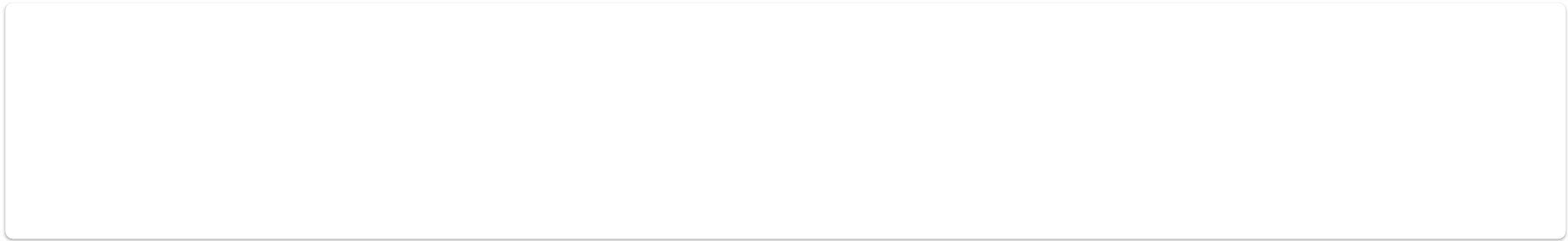
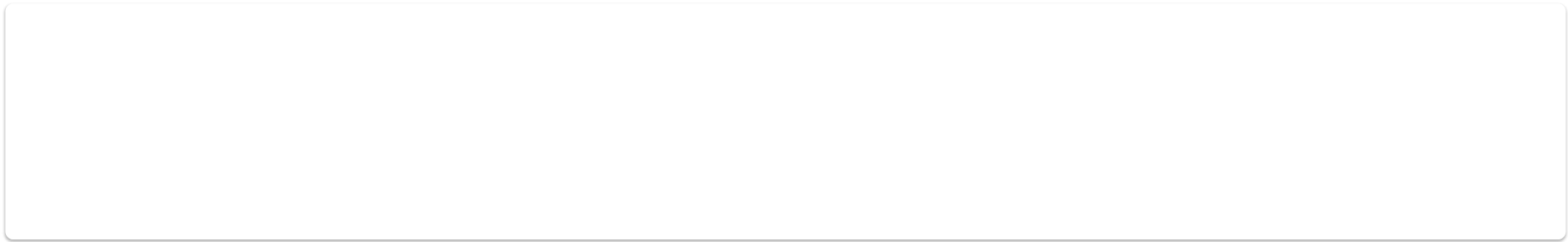
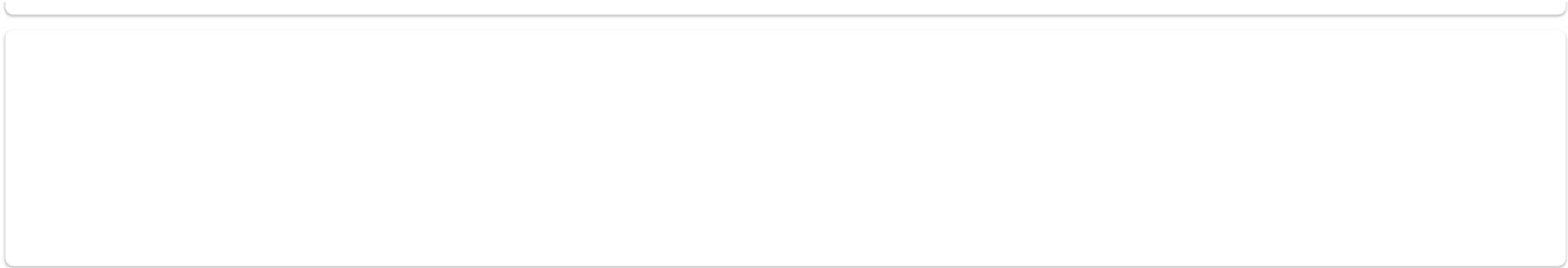
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