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CLOUD POINT EXTRACTION METHOD FOR SEPARATION AND PRE CONCENTRATION OF MG (II) AS ANION COUPLED WITH SPECTROPHOTOMETRIC APPLICATIONS

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ABSTRACT

Cloud point extraction methodology used as qualified procedure for separation Magnesium (II)as anion after combination with Oxine as well as for spectrophotometric determination The method involved the formation ion pair association complex between Rhodamin–B⁺ and Oxine anion complex of magnesium [Mg(OX)3⁻] in basic media, and this complex extracted to surfactant Triton X-100 at optimum conditions The cloud point layer which is contain ion pair complex extracted mediated with ethanol solvent and spectrophotometrically measured at λ_{max} =648nm ,also by adoption on Eriochrom Black-T method spectrophotometrically determination ,the remaining Mg²⁺ in aqueous phase after extraction and calculate distribution ratio D. This study demonstrates all optimum conditions for high efficiency of extraction as well illustrated all factors affect on extraction, in addition to applicable this method.

KEYWORDS: Cloud Point Extraction, Preconcentration, Magnesium