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摘要: 本文研究了在表面活性剂存在下,汞与溴代二甲氨基苯基荧光酮(BDMAF)的显色反应。在pH=10.5的缓冲体系中,Hg(II)与显色剂形成1:3稳定的紫红色配合物,配合物的 $\lambda_{\text{max}}=560\text{nm}$,其表现摩尔吸光系数为 $1.16 \times 10^5 \text{ L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1}$,Hg(II)含量在0~30 $\mu\text{g}/25\text{mL}$ 范围内符合比尔定律样品分析结果令人满意。

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lanilinefluorone by spectrophotometry method

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Abstract: The colour reaction of Hg (II) with (BDMAF) has been investigated in presence of surface-tants, pH10.5. The absorption Hg(II) with (BDMAF) to form a 1:3 stable red complex in the presence maximum is at 560 nm and the apparent molar absorptivity is $1.16 \times 10^5 \text{ L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1}$. Beers law is obeyed in the range of 0-20 $\mu\text{g}/25 \text{ ml}$, The method is highly sensitive and selective. The method has been applied to the direct determination of mercury in water samples with satisfactory results.

Key words:

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