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Polyester Fabric Sheet Layers Functionalized with Graphene Oxide for Sensitive Isolation of Circulating Tumor Cells

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Key words: Circulating tumor cells, fabric sheet, graphene oxide, nanomaterial, high sensitive isolation

Abstract

The metastasis of cancer is strongly associated with the spread of circulating tumor cells (CTCs). Based on the microfluidic devices, which offer rapid recovery of CTCs, a number of studies have demonstrated the potential of CTCs as a diagnostic tool. However, not only the insufficient specificity and sensitivity derived from the rarity and heterogeneity of CTCs, but

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