

INTRODUCTION

SiDirect beads are superparamagnetic non-aggregate iron oxide microspheres made of highly cross-linked polystyrene with a specifically engineered coating. The beads are uniform and stable for capturing and purifying cell-free DNA targets. This design enables faster binding, with high sensitivity and selectivity, in both manual and automated research applications.

HIGHLIGHTS

- **Superior performance** – optimized and designed to match or outperform other competitors
- **Superior capacity and yield** – large surface area and high-binding capacity for low concentration target purification
- **Superior purity** – stable and smooth spherical surface provide clean purification from complex matrix.
- **Eco-friendly** – no costly columns required and minimal use of plastics

APPLICATIONS

- Cell-free DNA isolation

High-Capacity Purification with Excellent Reproducibility

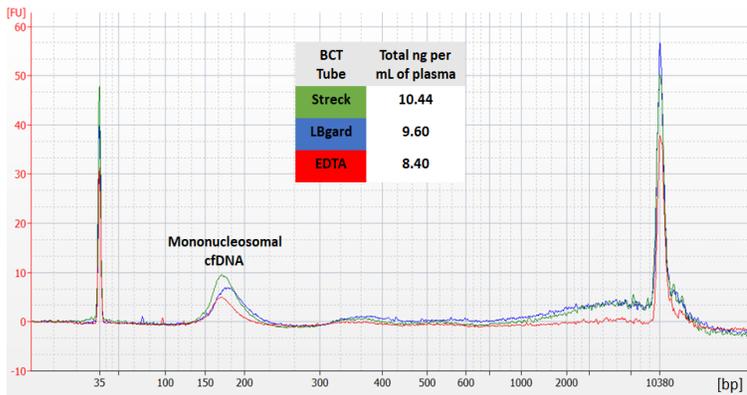


Figure 1. Example of cell-free DNA isolated from different BCT tubes using SiDirect beads

SiDirect beads are designed to selectively bind to cell-free DNA with high affinity, allowing for a low detection limit.

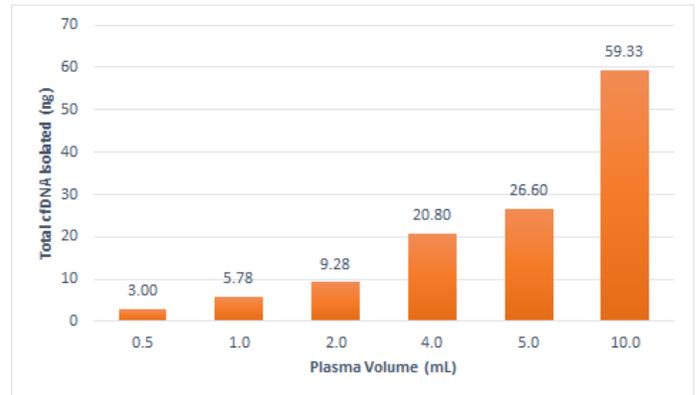


Figure 2. Example of linear yields relative to the volume of plasma using SiDirect beads

SiDirect beads are highly stable in biological samples, resulting in high yields of cell-free DNA.

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