



Product Specification Sheet

EpiSep EpCAM (323/A3)[®] Magnetic Particles

Doc.# ML080104-11

CATALOG #: R2120-1

DESCRIPTION: EpiSep EpCAM (323/A3)[®] Magnetic Particles are 0.21 μm diameter uniform, superparamagnetic polystyrene beads coated with a monoclonal anti-mouse EpCAM antibody. The antibody coated onto the magnetic particles, clone 323/A3¹⁻⁴ recognizes EGP40 a 40kDa transmembrane epithelial glycoprotein identified as epithelial cellular adhesion molecule (Ep-CAM) also known as epithelial specific antigen (ESA). EpCAM is expressed on the baso-lateral cell surface in most simple epithelia and a majority of carcinomas.

**FOR RESEARCH
USE ONLY:**

This product is not for diagnostic or therapeutic use.

SUPPLIED AS: 1.0mL of suspended magnetic particles in 0.10 M Phosphate Buffer pH 7.4, 0.1% BSA, 0.02% Sodium Azide. Approximately 4.9×10^9 magnetic particles/mL.

STABILITY: Stable when stored at 4-8°C. Refer to lot expiration date. Recommended storage upon receipt is 4-8°C. **DO NOT FREEZE**, EpiSep EpCAM (323/A3)[®] Magnetic Particles can be stored for up to 12 months at 4°C. **DO NOT STORE AT ROOM TEMP.**

**APPLICATIONS
AND SUGGESTED
USE:**

Enrichment of epithelial cells for use with FISH, Immunocytochemistry, Flow Cytometry, PCR.

Resuspend particles prior to each use by inversion several times. 50 μL will contain approximately 24.5×10^8 of anti-323/A3 coated magnetic particles. Generally, a final concentration from 1.2×10^8 to 25×10^8 magnetic particles per ml of specimen is sufficient for most applications.

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MATERIAL

SAFETY DATA: When handling this material Standard Laboratory Practices should be followed. This material's chemical, physical and toxicological properties have not been thoroughly investigated. Contains **Sodium Azide** as a preservative. Although, the quantity of sodium azide (0.02%) is very small, measures should be taken to avoid skin and eye contact, inhalation and ingestion. Sodium Azide (NaN₃) may react with lead and copper plumbing to form potentially explosive metal oxides. Upon disposal, flush with a large volume of water to prevent azide build-up.

REFERENCES:

1. Valders MP et al. New Chimeric Anti-Pancarcinoma Monoclonal Antibody with Superior Cytotoxicity-Mediating Potency. *Cancer Research*, 1994, 54(70): 1753-1759.
2. Courtney SP et al. Monoclonal Antibody 323/AA3: A Marker for The Presence of Breast Carcinoma. *Cancer Letters*, 1991 57(2): 115-119.
3. Tandon AK, et al. Association of the 323.A3 Surface Glycoprotein with Tumor Characteristics and Behavior in Human Breast Cancer. *Can Res*, 1990, 50: 3317-3321.
4. Edwards DP, et al. *Cancer Res*. 1986, 46: 1306-1317