

Target Capture

First level of specificity: Specific hybridization eliminates matrix variation from your samples to ensure accurate results.

Target Capture is a fully automated sample purification process. The Target Capture process utilizes magnetic particles and capture oligonucleotides (oligos) to specifically hybridize to the target nucleic acid following cell lysis. The process captures and concentrates the target sample and efficiently removes any closely related organisms and inhibitors such as proteins, fats, and oils, through a series of wash steps. This molecular purification method ensures optimal specificity and accuracy.

Benefits of Target Capture

- Eliminates matrix variability and allows optimal assay performance even with difficult food matrices
- Reduces false positives caused by closely related organisms
- Eliminates indeterminates and reduces invalids
- Fully automated on the Atlas® System platform, with no manual sample preparation
- Test all foods and environmental surfaces on a single, molecular platform
- Get accurate results the first time, eliminating need to re-test samples
- Streamlines the testing process and minimizes operator hands-on time

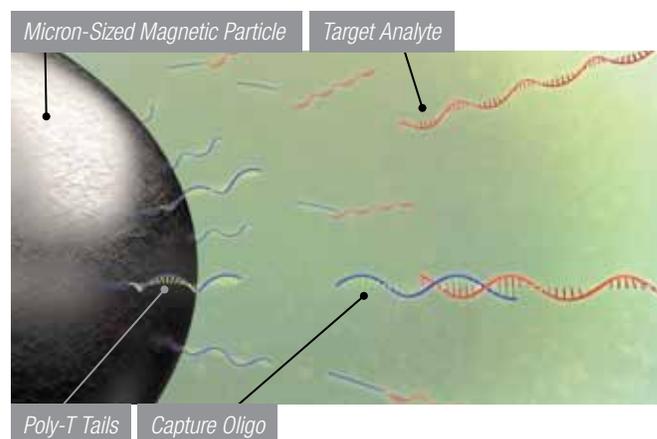
Cell Lysis



Description:

- The sample is transferred from the enrichment bag to the Roka Sample Transfer Tube
- Cells are lysed at room temperature without additional processing
- The target nucleic acids are released and stabilized for 5 days at room temperature

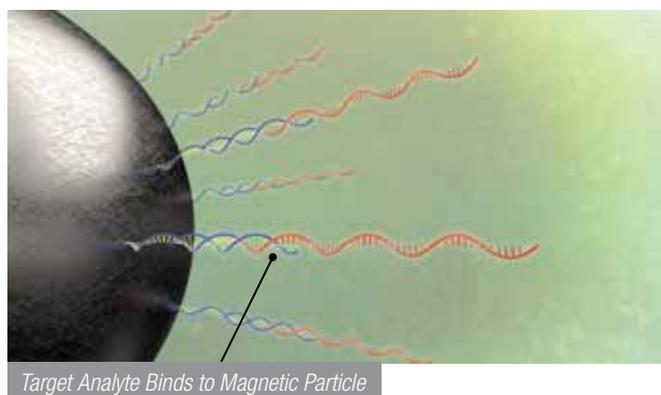
Hybridization



Description:

- Target Capture Reagent is added to the sample
- When heated, the capture oligo binds to the target nucleic acid sequence

Capture



Description:

- The poly-A tail on the capture oligo binds to the poly-T tail on the magnetic particle
- The magnetic particles are pulled to the side of the reaction tube by magnetic force — isolating the target nucleic acid sequence
- All other components, including all inhibitors and non-target nucleic acids, are removed in a series of wash steps



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