

## Cepheid: Portable Real-Time DNA Analysis

### THE LLNL TECHNOLOGY

A silicon-based, sleeve-type reaction chamber for the synthesis or processing of organic, inorganic, or biochemical reactions, such as the polymerase chain reaction and other DNA reactions. A critical ratio of silicon- and non-silicon-based materials provides the essential thermal properties.

### COMPANY

**Cepheid**, in Sunnyvale, California, develops, manufactures, and markets fully-integrated genetic analysis systems for the clinical assessment, bioterror, and life sciences markets. Rapid, sophisticated genetic testing of organisms is possible by automating otherwise manual laboratory procedures. Cepheid obtained its license from LLNL as a start-up company in 1997, has developed its core products around LLNL technology, and has received numerous awards for its products.

### PRODUCT

Cepheid's SmartCycler® and GeneXpert® can rapidly perform a broad range of genetic tests, from identifying infectious organisms to evaluating at-risk populations for the early detection of disease. Cepheid's focus is to continue developing a broad menu of tests for the scientific and medical communities for the SmartCycler® and GeneXpert®, providing rapid results at reduced cost.

### IMPACT

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*“The adaptation of LLNL technology, which is the basis of the SmartCycler and GeneXpert systems, has allowed Cepheid to revolutionize DNA-based testing.”*

Thomas L. Gutshall  
Chairman  
Cepheid



*Core products, the SmartCycler® and GeneXpert® are based on LLNL technology*

