



**CPAL**

Central Pennsylvania Alliance Laboratory

# Technical Bulletin

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## **Galileo Immunohematology Analyzer Implemented at CPAL for ABO, Rh(D) Typing and Red Cell Antibody Screens.**

**Starting Date:**

March 26, 2007

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**Summary:**

Beginning March 26, 2007, CPAL will perform ABO, Rh(D) typing and detection of IgG red blood cell antibodies on routine blood donor specimens using the *Galileo* (Immucor Gamma, Inc., Norcross, GA). Installation, training and validations of the Galileo are complete. The Galileo will replace the Ortho-Clinical Diagnostics Gel Card technology (TECAN MEGA Flex-ID System) currently in use.

The Galileo is a microprocessor-controlled instrument designed to fully automate immunohematology *in vitro* diagnostic testing of human blood. The Galileo automates test processing, result interpretation and data management functions using a microplate-based platform. Features of the Galileo system have been designed to maximize operator efficiency and thereby minimize result errors. The Galileo's microplate reader uses CCD cameras to capture an image of the microplate from underneath. The Galileo software calculates a reaction value for each well based on a multi-feature image analysis and then assigns a result and interpretation to the wells based on predefined criteria associated with the calculated reaction value. Some assay protocols require multiple test wells for a given blood sample interpretation, such as ABO and Rh (D) typing.

Successful validation testing was completed in March using this platform. The assays validated on the Galileo have performed appropriately in both comparison studies and workflow studies for each blood type and representative red cell antibody screens.

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For questions about this and other information, call Central Pennsylvania Alliance Laboratory at 1-888-480-1422.