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REF LAB NO: 11111-08  
NAME: **Doe, John**  
MEDICAL RECORD: 00021211

**PATHOLOGY CONSULTATION REPORT**

**MOLECULAR DIAGNOSTIC STUDIES**

ACCESSION DATE: 02/01/2008

COLLECTION DATE: 01/28/2008

DOB: 01/26/1983    Age: 25 Years    GENDER: Male    RACE: Unknown

SUBMITTER: Dr. John Smith, 1 Main Street, Gainesville, FL 32601  
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MATERIALS RECEIVED: 10 ml of cells suspension from peripheral blood and 10 mls of fixed WBC's ( 3.6 X 10<sup>6</sup> cells/mL) in RPM I..

A. Cell suspension, ZSS-08-2211

CLINICAL HISTORY: 25 year old male with history of recurrent non-Hodgkin's lymphoma with atypical lymphocytosis.

Test Description: The translocation of the bcl-2 gene on chromosome 18 to chromosome 14 where the immunoglobulin heavy chain genes reside results in up-regulation of BCL-2 protein expression. This rearrangement is evaluated using primer pairs to the major breakpoint region (MBR) and minor cluster region (mcr). With this method, this translocation is detected in 90% of B cell follicular lymphomas. Using dilutional studies, the level of sensitivity of this test is estimated at 1 in 1,000 cells. To ensure DNA integrity, a portion of the β-globin gene is amplified from each sample. This test was developed and its performance characteristics determined by the University of Florida Diagnostic Reference Laboratories (UFDRL). It has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. The UFDRL is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.

References: Liu, J., Johnson., R., and Traweek, S.T. Rearrangement of the bcl-2 gene in follicular lymphoma - Detection by PCR in both fresh and fixed tissue samples. Diagnostic Molecular Pathology. 1993. 2(4):241 -247.

**LABORATORY FINDINGS:**

**A. Cell suspension, ZSS-08-2211**

**DNA Integrity: Confirmed**

Translocation	PCR Results
BCL-2 Major Breakpoint Region	Negative
BCL-2 Minor Cluster Region (mcr)	Negative

**Interpretation:**

**PCR amplified bands are NOT observed in this sample at the level of sensitivity of this test.**

PATHOLOGIST: David Jones, M.D.

R0811111 - 01/DJ    02/10/08 [ 83891, 83894 x2, 83896 x2, 83897 x2, 83898 x2, 83912 ]  
[ 0150 x2, 0151 x2, 0153, 0205 x2, 0245, 0253 x2 ]

RETRIEVAL CODE: Dx Code:288.8

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