University of Florida Diagnostic Reference Laboratories
Department of Pathology and Laboratory Medicine
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REF LAB NO: 11111-08
NAME: **Doe, Jane**
MEDICAL RECORD: 00021210

PATHOLOGY CONSULTATION REPORT

QUANTITATIVE TUMOR ANALYSIS

ACCESSION DATE: 02/01/2008

COLLECTION DATE: 01/28/2008

DOB: 01/25/1983 Age: 25 Years GENDER: Female RACE: Unknown

SUBMITTER: Dr. John Smith, 1 Main Street, Gainesville, FL 32601, (Phone#)-(352)-222-1111.
Send reports to Dr. John Smith, (FAX#)-(352)-222-2222.

MATERIALS RECEIVED: 5 slides labelled T08-21111 A1 (unstained), 1 block labelled T08-21111- A1
A. Breast, right, T08-21111 A1 (unstained)

CLINICAL HISTORY: 25 year old female with history of right breast mass

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Laboratory Findings

A. Breast, right, T08-21111 A1 (unstained)

IN SITU HYBRIDIZATION RESULTS: HER2/NEU AMPLIFICATION RESULTS BY FISH ARE NEGATIVE (1.0) IN THE SAMPLE SUBMITTED FOR STUDY.

LAB FINDINGS		
Gene	**Amplification(Ratio)**	**Reference Range**
Her-2/neu (FISH)	Negative (1.0)	Negative < 1.8 Borderline 1.8-2.2 Positive > 2.2

COMMENT: Microscopic sections from the referred block confirms the presence of tumor in the regions evaluated. The result is expressed as the ratio of Her-2/neu gene copies/chromosome 17. Clinical correlation of these results in conjunction with Her-2/neu immunoperoxidase studies, and clinical findings may be of value in determining further therapy.

Test Description: Amplification of the Her-2/neu gene in paraffin embedded tissue is performed using the FDA approved PathVysion method (Vysis, Inc.). Using fluorescent microscopy, enumeration is performed of the Her-2/neu gene, located at locus (17q11.2-q12) on chromosome 17, and the alpha satellite DNA sequence located at the centromeric region of chromosome 17 (17p11 .1-q1 1.1). Gene amplification is based on the ratio of Her-2/neu to chromosome 17 in the tumor tissue.

References

1. Zarbo, R.J., Hammond, M.E.H. Conference Summary, strategic science symposium: Her-2/neu testing of breast cancer patients in clinical practice. Arch Pathol Lab Med. 2003. 127:549-553.
2. PathVysion Her-2/neu DNA probe kit [package insert]. Downers Grove, Ill; Vysis, Inc; 2003.

PATHOLOGIST: David Jones, M.D.

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RETRIEVAL CODE: none

PRINTED: 02/10/08