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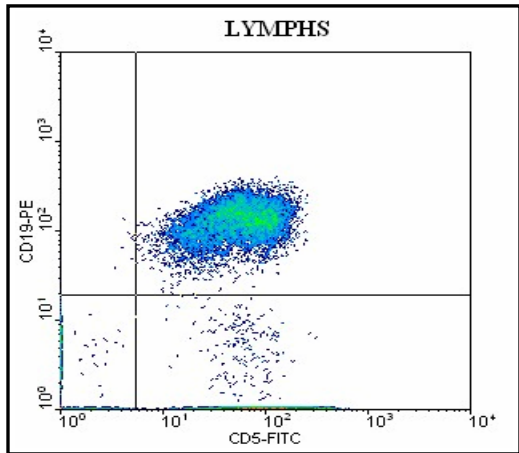
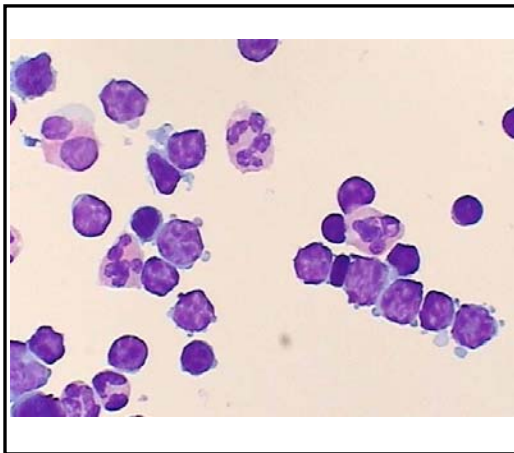
Account #  
 1234

Sample Report

<b>Patient:</b> SMITH, JANE	
Sex:	Female SSN: 123-98-7654
Date of Birth:	03/06/1946 Age: 60 Years
Patient ID:	A0123456799
Physician:	Doe, Jane
Collection Date:	06/06/2006
Specimen:	Bone Marrow
<b>Client Specimen ID</b>	<b>Specialty Accession #</b>
01234567:ABC	006 - 1234566
<b>Received Date</b>	<b>Report Date</b>
06/07/2006	06/08/2006
Notes:	

**FINAL CHARTABLE REPORT**

**1795 – Leukemia / Lymphoma Flow EvaluatR™**



Microscopic image(s) and/or histogram(s) are a symbolic representation of key findings of this specific report and are not intended to replace a complete review and reading of the final diagnostic report provided.

**Interpretation**

**Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma with kappa light chain restriction comprising 54% of all cells analyzed, CD38(+), ZAP- 70(+).**

**Comment:** Final interpretation requires correlation with clinical, morphologic, and the pending cytogenetic analysis findings. The results of the latter analysis will be issued in an addendum report. Should you have any questions, please contact me.

**Morphology (Flow Cytometry Specimen)**

The cytospin and smear preparations reveal an increased number of small lymphocytes.

**Hematopathologist:** [electronic signature] **Christopher Lockhart, M.D.**

**Tests Performed**

**Markers Evaluated:** CD3, CD4, CD5, CD7, CD8, CD10, CD11b, CD13, Mo2, CD15, CD16, CD19, CD20, CD23, CD34, CD38, CD45, CD56, CD64, CD117, FMC7, HLA-DR, Kappa, Lambda, and ZAP-70.

**CPT Codes:** 88184, 88185x24, 88189



# SPECIALTY LABORATORIES

27027 Tourney Road, Valencia, CA 91355-5386  
(800) 421-7110 or (661) 799-6543  
www.specialtylabs.com

Patient: SMITH, JANE

Specialty Accession # 006 - 1234566

## 1795 – Leukemia / Lymphoma Flow EvaluatR™

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### Flow Cytometry Findings

Data were produced using correlated CD45 antigen density/right angle light scatter properties, gating on cell populations (approximate percentages of all cells analyzed) listed below:

#### ABNORMAL CELLS:

54% small sized (forward light scatter properties) monoclonal B cells with a kappa(+), CD45(+), CD5(+), CD19(+), CD20(+), CD23(+), HLA-DR(+), CD38(+) (91% of the clonal cells are positive), ZAP-70(+) (36% of the clonal cells are positive), CD10(-), FMC7(-), lambda(-) phenotype.

#### OTHER CELLS:

- 1) <1% Non-lymphoid blasts/progenitor cells [CD34(+), CD117(+), HLA DR(+)]
- 2) <1% Polytypic, predominantly small (forward light scatter properties) B cells [CD19(+), CD20(+) with a kappa/lambda ratio = 1.5:1 and variable expression of CD23 and FMC7]
- 3) 12% Small T cells [CD3(+), CD4/CD8 ratio = 0.7:1, and non-aberrant expression of pan-T-cell antigens CD5 and CD7]
- 4) 3% NK cells [CD3(-), CD7(+), CD56 variable (+)]
- 5) 20% Granulocytic elements [CD13(+), CD16 variable(+), CD15(+)] without significant right angle light scatter property or antigenic expression pattern atypia
- 6) 3% Monocytes [CD11b(+), CD14(+), CD68(+)]

DNA: Non-contributory

SPECIMEN VIABILITY: 99%

FLOW CYTOMETRY DATA ANALYST: *[electronic signature]*

Antonio Lazaro, CLS (CA)

#### REFERENCES:

- 1) Braylan, R. C., Borowitz, M. J., Davis, B. H., Stelzer, G. T., Stewart, C. C., et al. 1997. U.S.-Canadian Consensus Recommendations on the Immunophenotypic Analysis of Hematologic Neoplasia by Flow Cytometry. Cytometry 30, no. 5: 213-63.
- 2) Stelzer, G. T., Shults, K. E., and Loken, M. R. 1993. CD45 Gating for Routine Flow Cytometric Analysis of Human Bone Marrow Specimens. Annals of the New York Academy of Sciences 677: 265-80.
- 3) Jaffe E.S., Harris N.L., Stein H., Vardiman J.W., eds. 2001. World Health Organization Classification of Tumours. Pathology and Genetics of Tumours of Haematopoietic and Lymphoid Tissues (ISBN 92-832-2411-6). Lyon: IARC Press.
- 4) Wiestner, A., Rosenwald, A., Barry, T., et al. 2003. ZAP-70 expression identifies a chronic lymphocytic leukemia subtype with unmutated immunoglobulin genes, inferior clinical outcome, and distinct gene expression profile. Blood 101(12):4944-51.
- 5) Crespo, M., Bosch, F., Villamoor, N. et al. 2003. ZAP-70 expression as a surrogate for immunoglobulin-variable-region mutations in chronic lymphocytic leukemia. New England Journal of Medicine 348:1764-75.

The hematopathologist's interpretation of these results should be considered a contributing portion of the physician's workup. Correlation with all histologic and clinical data is necessary for a final interpretation. For questions about these results, please contact Client Services (800) 421-4449.

The performance characteristics of one or more of the assays in this panel were established through validation by Specialty Laboratories, and no approval is required by the U.S. Food and Drug Administration (FDA). These tests are used for clinical purposes. They should not be regarded as investigational or for research. Specialty Laboratories is regulated under the Clinical Laboratory Improvement Amendments of 1988 ("CLIA") as qualified to performed high complexity clinical testing.

Laboratory Director: *[electronic signature]*

Michael Dugan, M.D.

Report Completed