

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

DOB: [REDACTED]  
Gender: [REDACTED]  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
Collection Date: 00/00/0000 00:00

**Celiac Disease (HLA-DQ2, and HLA-DQ8) Genotyping**

ARUP test code 2005018

HLA Celiac Specimen whole Blood

Celiac (HLA-DQA1\*05) Negative

Celiac (HLA-DQB1\*02) Negative

Celiac (HLA-DQ8) Negative

**Celiac HLA Interpretation**

See Note

Result: Negative for HLA-DQA\*05, HLA-DQB\*02, and HLA-DQ8  
Interpretation: None of the alleles associated with celiac disease were detected. Since over 99 percent of affected individuals have at least one copy of a high risk allele, this individual is neither likely to be affected with nor at risk for developing celiac disease.

This result has been reviewed and approved by Julio Delgado, M.D., M.S.

H=High, L=Low, \*=Abnormal, C=Critical

**BACKGROUND INFORMATION: Celiac Disease (HLA-DQ2 and HLA-DQ8) Genotyping**

**CHARACTERISTICS:** Celiac disease is a systemic autoimmune disorder that may be associated with gastrointestinal symptoms including: diarrhea, weight loss, anorexia, lactose intolerance, and abdominal distention and discomfort. Non-gastrointestinal characteristics are highly variable and include: chronic fatigue, joint pain/inflammation, migraines, epilepsy, depression, attention deficit disorder, iron-deficiency anemia, vitamin deficiency, osteoporosis/osteopenia, short stature, delayed puberty, dental enamel defects, infertility, recurrent fetal loss, and dermatitis herpetiformis.  
**INCIDENCE:** One in 133 individuals in the US is affected.  
**INHERITANCE:** Multifactorial.  
**CAUSE:** The presence of either the HLA-DQ2 or the HLA-DQ8 allele in combination with dietary gluten.  
**ALLELES TESTED:** HLA-DQ2 (encoded by HLA-DQA1\*05 and HLA-DQB1\*02); and HLA-DQ8 (encoded by HLA-DQB1\*03:02).  
**CLINICAL SENSITIVITY AND SPECIFICITY:** Approximately 100 percent and 3 percent, respectively.  
**METHODOLOGY:** PCR with melting curve analysis.  
**ANALYTICAL SENSITIVITY AND SPECIFICITY:** 99 percent.  
**LIMITATIONS:** Rare diagnostic errors may occur due to primer site mutations. Copy number of each detected allele will not be determined. Alleles other than HLA-DQ2 and HLA-DQ8 will not be identified. Other genetic and non-genetic factors that influence celiac disease are not evaluated.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement C: aruplab.com/CS

**VERIFIED/REPORTED DATES**

Procedure	Accession	Collected	Received	Verified/Reported
HLA Celiac Specimen	19-060-400506	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Celiac (HLA-DQA1*05)	19-060-400506	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Celiac (HLA-DQB1*02)	19-060-400506	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Celiac (HLA-DQ8)	19-060-400506	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Celiac HLA Interpretation	19-060-400506	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

**H=High, L=Low, \*=Abnormal, C=Critical**