

# CELSUS ONE™

Evaluates 8 gene markers related to inflammatory response

## Why Test?

- Risk Assessment
  - Determine which patients are at increased risk for more severe periodontal infections due to an exaggerated immune response
- Personalize Treatment
- Reinforces the Need for Recall

## 8 Gene Markers Detected

- Beta-defensin 1 (DEFB1)
- CD14 (CD14)
- Toll-like receptor 4 composite genotype (TLR4)
- Tumor necrosis factor alpha (TNF-alpha)
- Interleukin 1 composite genotype (IL-1)
- Interleukin 6 (IL-6)
- Interleukin 17 A (IL17A)
- Matrix metalloproteinase 3 (MMP3)

We can't tell where your ancestors are from, but we can tell you if you're at risk for inflammation!

**Genetic markers of inflammation play a critical role in influencing the severity of periodontal disease, diabetes, and cardiovascular conditions.**

Learn More at  
[OralDNA.com](https://OralDNA.com)



\*Not available in the state of New York

# CELSUS ONE™ Sample Report

## Sample, Report

**Date of Birth:** 07/31/1970 (52 yrs)  
**Gender:** Male  
**Patient ID:** 920-C  
**Patient Location:** Test Site A

## Ordering Provider

Ronald McGlennen MD  
 7400 Flying Cloud Drive  
 Suite 150  
 Eden Prairie, MN 55344  
 855-672-5362

## Specimen#: 5981001001

**Accession#:** 202305-03157  
**Specimen:** Oral Rinse(P)  
**Collected:** 05/14/2023  
**Received:** 05/15/2023 11:29  
**Reported:** 05/16/2023 11:33

## CELSUS ONE GENETIC ANALYSIS FOR MARKERS OF ORAL AND SYSTEMIC INFLAMMATION

**Reason for Testing:** Patient assessment/baseline

Type of Immunity	Gene Marker	Genotype	Inflammation Index
Innate	Beta-defensin 1 (DEFB1)	G/A	Low Risk
	CD14 (CD14)	T/T	
	Toll-like receptor 4 (TLR4)	AA/CC	
Acquired	Tumor necrosis factor alpha (TNF-alpha)	C/C	High Risk
	Interleukin 1 (IL1)	CC/CC	
	Interleukin 6 (IL6)	G/G	
	Interleukin 17A (IL17A)	A/A	
	Matrix Metalloproteinase 3 (MMP3)	5A/5A	

## Interpretation:

The genotypes for markers DEFB1, CD14 and TLR4 for this individual collectively predict a normal phenotype for the innate immune system and a low risk for chronic systemic inflammation. Specifically, the expected level of gene expression, and/or levels of these proteins, is normal in response to environmental and disease causing bacteria and other effectors of inflammation. See comment.

The genotypes for markers TNF-alpha, IL1, IL6, IL17A, and MMP3 predict a heightened immune response to specific pathogens and a higher risk for chronic systemic inflammation. Based on this gene expression and the corresponding protein levels in



## Report Includes:



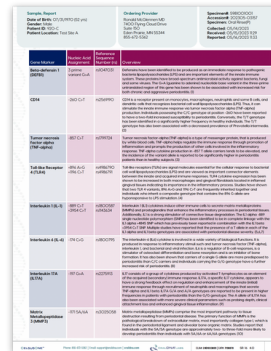
Cover



Results & Interpretation



Comments



Gene Marker Overview



References & Methodology