

KIT ID SAMPLE-COMP-TX-RESPONSE	COLLECTION DATE 04/10/2026	CONFIRMATION NUMBER SAMPLE-COMP-TX-RESPONSE	RESULTS 04/12/2026	STAGE N/A	GRADE N/A	BOP % N/A	ORDERING PROVIDER Sample Provider Sample Dental Practice
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WHAT IT MEASURES

qPCR detection of DNA from 15 oral microorganisms — the species most strongly associated with periodontal disease, an additional set of bridging organisms, early colonizers, and Candida.

HOW TO READ IT

The Periodontal Risk Score (1–5) and Pressure Score (0–100) reflect microbial load and pathogen combinations. Patterns highlight synergistic risks.

HOW TO USE IT

Pair the focus areas with your clinical assessment to guide prevention, treatment, and retesting cadence.

PERIODONTAL RISK SCORE

4
/5

High Risk

HIGH RISK risk for periodontal disease based on the detection and pattern of key pathogens.

Periodontal Pressure Score (0–100) — continuous burden across the 6 core perio organisms.

CLINICAL FLAGS

⚠️ **Pg + Td co-detection**
This combination is strongly associated with active periodontal disease.

Pg + Td Synergistic Pattern

PATTERN IDENTIFIED

Pg + Td co-detection. Strong indicator of active periodontal disease.

Category	Pathogen	Score
CORE PATHOGENS	Pg	11.0
	Td	10.0
	Tf	ND
AMPLIFIERS	Aa*	ND
	Fa	ND
BRIDGE	Fn-a	4.0

*Aa uses different thresholds (≥4 mod, ≥8 high). Color reflects Aa-specific classification.

ADDITIONAL MARKERS

ⓘ **REFERENCE DETECTION**
Reported for context — does not contribute to the PRS or Pattern classification.

Fn

8

LOW

Total Fusobacterium nucleatum is a commensal that can rise during inflammation but is not pathognomonic for periodontal disease on its own. The PRS and Pattern classification rely on the subspecies-level marker (Fn-a) shown in the chart above.

ECOLOGICAL PROFILE

Quiescent Ecosystem

No clinically significant detections in the Comprehensive add-on panel. The ecosystem appears stable. Continue routine monitoring at the standard interval.

BRIDGING BURDEN SCORE

Weighted bridging-organism load — Pi · En · Cr · Pm · Pa · Fn.

Extended Organism Profile

BBS 33

Bridging organisms, early colonizers, and Candida — drives the Ecological Profile shown on the left.

Category	Organism	Score
BRIDGING	Pi	5.0
	En	ND
	Cr	5.0
	Pm	6.0
	Pa	4.0
EARLY COLONIZERS	Ec	9.0
	Cs	8.0
FUNGAL	Ca*	ND

*Ca uses different thresholds (≥6 mod, ≥12 high). Color reflects Ca-specific classification.

CLINICAL FOCUS AREAS

Perio 4/5 · 4 recommendations

⚠️ **Schedule periodontal evaluation within 30 days** HIGH

Periodontal Risk Score is 4/5 (High Risk). Professional evaluation to assess pocket depths, bone levels, and tissue status within 30 days is recommended.

⚠️ **Target Pg and Td through professional treatment** HIGH

P gingivalis (DL 11) and T denticola (DL 10) co-detected. This synergistic combination is strongly associated with active periodontal disease. Professional scaling, root planing, and antimicrobial therapy are recommended.

⌚ **Retest in 60–90 days** HIGH

Elevated risk profile. Active intervention is recommended. Retest within 60–90 days to track response to treatment and lifestyle changes.

⚠️ **Disrupt Fn-a biofilm bridging** MOD

F nucleatum subsp animalis (DL 4) co-detected with 2 core pathogens. Fn-a facilitates biofilm maturation and pathogen persistence. Consistent mechanical disruption through professional cleaning and interdental care is recommended.

ⓘ Results should be interpreted with clinical findings and patient history. This test is not intended to diagnose or treat disease.

Testing Performed By: IMMYLabs, 133 Ed Noble Pkwy, Norman, OK 73072 CLIA# 37D2236199 | COLA ID# 32679 © 2026 OraPath By IMMYLabs, LLC All Rights Reserved

ORAL BACTERIA PROFILE | 04/12/2026

PERIODONTAL PATHOGENS (DRIVING PRS + PATTERN)

CORE PERIO PATHOGENS	Pg 11 MODERATE <i>P. gingivalis</i>	Td 10 MODERATE <i>T. denticola</i>	Tf Not Detected <i>T. forsythia</i>	AMPLIFIERS	Aa Not Detected <i>A. actinomycete...</i>	Fa Not Detected <i>F. alocis</i>	BRIDGE	Fn-a 4 LOW <i>Fn-animals</i>

ECOLOGICAL PROFILE ORGANISMS (DRIVING BBS + ECOLOGICAL PROFILE)

BRIDGING	Pi 5 LOW <i>P. intermedia</i>	En Not Detected <i>E. nodatum</i>	Cr 5 LOW <i>C. rectus</i>	Pm 6 LOW <i>P. micra</i>	Pa 4 LOW <i>P. anaerobius</i>	EARLY COLONIZERS	Ec 9 LOW <i>E. corrodens</i>	Cs 8 LOW <i>C. spp.</i>

FUNGAL	Ca Not Detected <i>C. spp.</i>	REFERENCE	Fn 8 LOW <i>F. nucleatum</i>

UNDERSTANDING YOUR DETECTION LEVELS

DL = 40 - Ct · each +1 DL doubles DNA quantity

DL uses a log₂ scale — each +1 DL doubles the bacterial DNA quantity. So the gap between DL 10 and DL 14 isn't "4 more" — it's **16x more**. Use the ruler and table below to interpret a value in context.

DL 0 ≈ 5	DL 3 ≈ 40	DL 6 ≈ 317	DL 9 ≈ 3K	DL 12 ≈ 20K	DL 15 ≈ 161K	DL 18 ≈ 1.3M	DL 21 ≈ 10.2M	DL 24 ≈ 81.4M
Trace		Low		Moderate		High		

Category	Organisms	Trace	Low	Moderate	High
Periodontal Profile*	<i>Pg, Td, Tf, Aa**, Fa, Fn-a</i>	>0-<3	3-<10	10-<14	≥14
Ecological Profile*	<i>Pi, En, Cr, Pm, Pa, Ec, Cs, Fn</i>	>0-<3	3-<10	10-<14	≥14
Fungal	<i>Candida (Ca)</i>	>0-<3	3-<6	6-<12	≥12

* The DL ruler above shows the shared bacterial cutpoints (3/10/14) — the Core Perio and Ecological Profile rows use the same thresholds. Fungal (Ca) uses different thresholds (see table).

** Aa (*A. actinomycetemcomitans*) is pathogenic at much lower abundance: **Moderate ≥4, High ≥8**. Trace and Low ranges match the other periodontals.

Total *F. nucleatum* (Fn) shares the bacterial cutpoints above but is reported as a Reference Detection — it does not contribute to the PRS, Pattern, or BBS scoring (see page 2).

Trace (DL < 3) is below the noise floor for individual risk scoring. All values are semi-quantitative.

This qPCR test was developed and its performance characteristics determined by IMMYLabs, 133 Ed Noble Pkwy, Norman, OK 73072 (CLIA# 37D2236199; COLA# 32679), validated per CLIA 42 U.S.C. § 263a. Not cleared/approved by FDA; clearance not currently required. Results are adjunctive and must be interpreted by a qualified healthcare provider with clinical findings and history. Not intended to diagnose or treat disease. **Periodontal Risk Score (1-5)**: Microbial risk pattern based on pathogen detection levels and combinations across the 6 core perio organisms (Aa, Pg, Td, Tf, Fa, Fn-a). **Periodontal Pressure Score (0-100)**: Continuous weighted burden across the same 6 organisms, complementing the 1-5 PRS. **Bridging Burden Score (0-100) + Ecological Profile**: Weighted load across the bridging organisms (Pi, En, Cr, Pm, Pa, Fn) paired with a literature-grounded pattern catalog spanning bridging, early colonizers, and Candida. All scores are semi-quantitative. **Lab Director**: Jeff McCormack, PhD, HCLD (ABB).

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Treatment Response Comparison

Periodontal risk score and pathogen pattern compared between previous and current collection.

TRAJECTORY - STABLE no change

Periodontal risk score unchanged at High Risk (4/5). Pattern of pathogen detection may have shifted — review individual organism levels. Periodontal Pressure Score dropped 21 points (−38%) from 56 (Moderate Burden) to 35 (Mild Burden). Pattern shifted from High-Risk Synergistic Pattern to Pg + Td Synergistic Pattern. Resolved: 3 periodontal pathogens present.

PATHOGEN-BY-PATHOGEN CHANGE

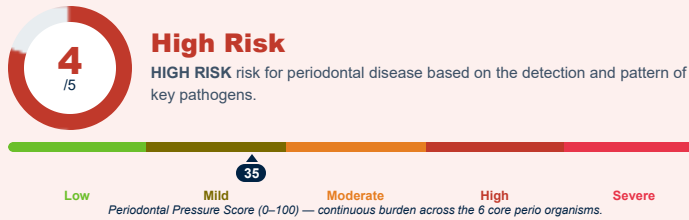
DL is log₂ scale · each ΔDL +1 ≈ 2× more DNA



CURRENT TEST 04/10/2026

KIT ID	COLLECTION DATE	CONFIRMATION NUMBER	RESULTS	STAGE	GRADE	BOP %	ORDERING PROVIDER
SAMPLE-COMP-TX-RESPONSE	04/10/2026	SAMPLE-COMP-TX-RESPONSE	04/12/2026	N/A	N/A	N/A	Sample Provider Sample Dental Practice

PERIODONTAL RISK SCORE



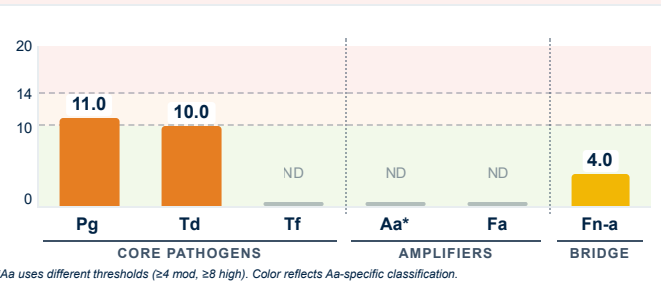
CLINICAL FLAGS

- Pg + Td co-detection**
This combination is strongly associated with active periodontal disease.

Pg + Td Synergistic Pattern

PATTERN IDENTIFIED

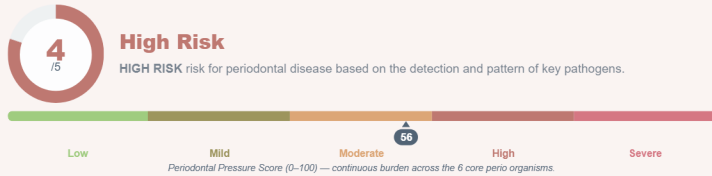
Pg + Td co-detection. Strong indicator of active periodontal disease.



PREVIOUS TEST for context · 01/15/2026

KIT ID	COLLECTION DATE	CONFIRMATION NUMBER	RESULTS	STAGE	GRADE	BOP %	ORDERING PROVIDER
SAMPLE-COMP-TX-RESPONSE-PRIOR	01/15/2026	SAMPLE-COMP-TX-RESPONSE-PRIOR	01/17/2026	N/A	N/A	N/A	Sample Provider Sample Dental Practice

PERIODONTAL RISK SCORE



CLINICAL FLAGS

- Pg + Td co-detection**
This combination is strongly associated with active periodontal disease.
- 3 periodontal pathogens present**
Higher likelihood of active periodontal disease.

High-Risk Synergistic Pattern

PATTERN IDENTIFIED

Pg + Td plus Tf or Fa. Expanded red complex; advanced periodontal pattern.

