

ACTINO ANALYTICAL REPORT:

THIS REPORT COMPRISES THREE TECHNICAL SECTIONS, AND EACH SECTION NEEDS CAREFUL EXAMINATION IDEALLY BY AN ENVIRONMENTAL PROFESSIONAL OR A TRAINED PHYSICIAN.

1. ACTINO-SCORE. QUANTIFIES ACTINOMYCETES BACTERIA IN RELATION TO A WATER-DAMAGED BUILDINGS AND PROVIDES SAFETY LEVELS BASED ON A SCORE SYSTEM.

ACTINO- SCORE:

- **10 OR BELOW** INDICATIVE OF HEALTHY BUILDING
- **BETWEEN 11-15** FURTHER INVESTIGATION MAY BE NEEDED
- **GREATER THAN 15** SUGGESTIVE OF BUILDING RELATED ILLNESS

2. ACTINO-INDEX. HOW SAFE THE BUILDING IS FOR CIRIS AFFECTED INDIVIDUALS?

ACTINO-INDEX:

- **DOMINANCE INDEX (D.I)** LOWER THAN 2.0 **LIKELY SAFE FOR CIRIS**
- **DOMINANCE INDEX (D.I)** HIGHER THAN 2.0 **LIKELY NOT SAFE FOR CIRIS**
- **PREVALENCE INDEX (P.I)** LOWER THAN 2.0 **LIKELY SAFE FOR CIRIS**
- **PREVALENCE INDEX (P.I)** HIGHER THAN 2.0 **LIKELY NOT SAFE FOR CIRIS**

3. TABLES WITH DETECTED BACTERIA SPECIES:

THIS SECTION MAY PROVIDE IMPORTANT INFORMATION ABOUT OTHER BACTERIA SPECIES IN THE SAMPLE AND PROVIDES NORMAL LEVEL THAT HELP WITH THE INTERPRETATION, PLEASE NOTICE THE ASTERISK NEXT BACTERIA LEVELS BE/MG. STREPTOMYCES, PSEUDOMONAS, ENTEROBACTERIA, AND CYANOBACTERIA IN PARTICULAR, ALL OF THEM ARE IMPORTANT FOR A HEALTHY INDOOR ENVIRONMENT.

(*) 100-FOLDS HIGHER THAN NORMAL
() 1,000-FOLD HIGHER THAN NORMAL**

ACTINO INDEX/ CIRS.

AS PART OF OUR ONGOING EFFORT TO PROVIDE MORE PRECISION REGARDING PATHOGENIC ACTINOBACTERIA, **DR. SHOEMAKER** HAS DEVELOPED AN ACTINOBACTERIA DOMINANCE INDEX (**DI**) AND A PREVALENCE INDEX (**PI**). BOTH INDICES ADD INFORMATION TO DETERMINE IF THE ACTINOBACTERIA WE IDENTIFY ARE OF HUMAN HABITAT (**HH**) ORIGIN OR SOIL HABITAT(**SH**) ORIGIN. THE HIGHER THE INDEX, 2.0 FOR PREVALENCE AND 2.0 FOR DOMINANCE, THE GREATER THE LIKELIHOOD OF EXPOSURE TO HH DERIVED ACTINOBACTERIA AS OPPOSED TO SH DERIVED ACTINOBACTERIA.

THE **INCREASED EXPOSURE TO HH ORGANISMS** HAS BEEN CORRELATED INDEPENDENTLY WITH INCREASED IMMUNE DYSREGULATION NOTED ON GENIE THAT ARE DISTINCT FOR DOMINANCE COMPARED TO PREVALENCE.

TOGETHER, THE IMMUNE BIOMARKERS SEEN ON GENIE GIVE RISE TO SPECIFIC IMMUNO-REACTIVITY FOR CAUSATION FOR PATIENTS EXPOSED TO **HH** ACTINOBACTERIA, BUT, TO DATE, NOT FOR SH ORGANISMS. IF BOTH MAPK AND TGFBR ARE ELEVATED; AND DOMINANCE AND PREVALENCE INDICES ARE ELEVATED, THERE WILL LIKELY BE SERIOUS ADVERSE HUMAN HEALTH CONCERNS AS SHOWN BY RESEARCH PERFORMED BY **DR. RITCHIE SHOEMAKER ET.AL.**

- **TESTING OPTIONS ARE SWIFFER OR VACUUM SAMPLE COLLECTION METHODS.**
- **7 DAYS TURNAROUND TIME.**

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