

BIO-REVEAL FOR MOLD AND FUNGI TESTING INTERPRETATION

Surfaces sampled were relatively dry or had been impacted with water and were near dry when sampled for ATP.

DRY SUBSTRATE CONDITIONS

Sampled Surface Condition (as referenced by the IICRC S520)	Moisture Content of Sampled Surface (%)	Bio-reveal Testing Results (RLU)	Fungi and Mold Contamination Condition
Normal Fungal Ecology (An indoor environment that may have settled spores, fungal fragments or traces of actual growth whose identity, location and quantity are reflective of a normal fungal ecology for a similar environment.)	<15%	1 – 50 (1 – 150)*	1 (TYPICAL FOR INDOOR ENVIRONMENTS)
Settled Spores (An indoor environment which is primarily contaminated with settled spores that were dispersed directly or indirectly from a Condition 3 area, and which may have traces of actual growth.)	<15%	50 - 150	2 (POTENTIALLY CROSS-CONTAMINATED INDOOR ENVIRONMENTS)
Actual Growth (An indoor environment contaminated with the presence of actual mold growth and associated spores. Actual growth includes growth that is active or dormant, visible or hidden.)	<15%	>150	3 (TYPICALLY NOT ACCEPTABLE)

* - ATP results relative to Condition 1 were dependent on the overall housekeeping cleanliness within the sampled location or on the sampled surface. Typical Condition 1 surfaces yielded ATP results that ranged from 1 RLU to 50 RLUs; however, there were samples that were as high as 150 RLUs.

Surfaces sampled were relatively damp or contained active moisture incursion with water when sampled for ATP.

WET SUBSTRATE CONDITIONS

Sampled Surface Condition (as referenced by the IICRC S520)	Moisture Content of Sampled Surface (%)	Bio-reveal Testing Results (RLU)	Fungi and Mold Contamination Condition
Normal Fungal Ecology (An indoor environment that may have settled spores, fungal fragments or traces of actual growth whose identity, location and quantity are reflective of a normal fungal ecology for a similar environment.)	< 15%	1 – 50 (1 – 150)*	1 (TYPICAL FOR INDOOR ENVIRONMENTS)
Settled Spores (An indoor environment which is primarily contaminated with settled spores that were dispersed directly or indirectly from a Condition 3 area, and which may have traces of actual growth.)	< 15%	100 - 500	2 (POTENTIALLY CROSS-CONTAMINATED INDOOR ENVIRONMENTS)
Actual Growth (An indoor environment contaminated with the presence of actual mold growth and associated spores. Actual growth includes growth that is active or dormant, visible or hidden.)	≥ 15%	>500	3 (TYPICALLY NOT ACCEPTABLE)

* - ATP results relative to Condition 1 were dependent on the overall housekeeping cleanliness within the sampled location or on the sampled surface. Typical Condition 1 surfaces yielded ATP results that ranged from 1 RLU to 50 RLUs; however, there were samples that were as high as 150 RLUs.

BIO-REVEAL FOR IICRC CATEGORY 1, 2 AND 3 INTERPRETATION LIQUID SAMPLING

Bio-reveal Guideline for Evaluating Category 1, 2 and 3 Water		
<i>(Liquid samples collected through extraction or from settled or ponded water, etc. The water samples are then analyzed by dipping the Bio-reveal Aquasnap into the collected liquid)</i>		
Water Loss Category	Definition of Water Loss * (Field Conditions)	Bio-reveal Result (RLU / 0.10 ml)**
Category 1	Clean Water (broken water supply lines, tub or sink overflows with no contaminants, appliance malfunctions involving water supply lines, melting ice or snow, falling rainwater, broken toilet tanks, toilet bowls that do not contain contaminants or additives, etc.)	< 5
Category 2	Gray Water (discharged water from dishwashers, washing machines, overflows from toilet bowls with some urine-no feces, sump pump failures, seepage due to hydrostatic pressure, broken aquariums, punctured water beds, etc.)	≥ 5 and < 500
Category 3	Black Water (sewage or other contaminated water sources entering or affecting the indoor environment, toilet backflows that originate beyond the trap, flooding from seawater, ground surface water and rising water from rivers or streams, etc.)	≥ 500

* Definition of water loss is dependent on time and temperature characteristics present at the site. Category 1 and Category 2 water loss situations can become Category 3 water losses after sufficient time as defined by the IICRC S500 standard.

** RLU / 0.10 ml = Relative light unit per volume collected on sampling swab equal to 0.10 ml.

BIO-REVEAL FOR CATEGORY 1, 2 AND 3 TESTING INTERPRETATION SURFACE SAMPLING

Guideline for Surface Sampling of Building Materials or Contents Includes Initial Assessments & Post Remediation Verification Testing of Surfaces for Water Damaged Building Materials		
<i>(Surface samples are collected using the Bio-reveal Ultrasnap swab from indoor environmental surfaces, building materials, furnishings, personal effects, etc.)</i>		
Sampled Surface Condition	Bio-reveal Surface Sampling Result (RLU)*	Interpretation Result
Not affected by water loss Or (Final hygiene goal for water loss restoration or remediation of building materials or contents to be salvaged)	< 50 (Category 1 losses)	PASS
	< 15 (Category 2 or 3 losses – threshold lowered to reduce potential for pathogen presence)	PASS
Moderately affected by water loss (Suggests restoration or remediation of remaining building materials or contents is not completely satisfactory)	≥ 50 and < 150 (Category 1 losses)	CAUTION
	≥ 15 (Category 2 or 3 losses – threshold lowered to reduce potential for pathogen presence)	FAIL
Severely affected by water loss (Suggests the building materials or contents are heavily contaminated and should be restored, remediated or disposed of)	≥ 150 (Category 1 losses)	FAIL
	≥ 15 (Category 2 or 3 losses – threshold lowered to reduce potential for pathogen presence)	FAIL

* RLU – Relative light unit or unit of measure for bioluminescent measurements