

## FuelClear™ M15 Fuel Biocide – Microbial Performance in B100

**Overview** Testing was carried out to determine if FuelClear™ M15 retained performance benchmarks in B100 Biodiesel against test method ASTM E1259-05.

**Microbiology** Fuel treated with FuelClear™ M15 was tested at two dose rates against the most common microbial contaminants in hydrocarbon fuels.

**Contaminants:**

Contaminant	Frequency
Pseudomonas Aeruginosa	Bacteria, 10 <sup>6</sup> in fuel
Hormoconis Resinae	Fungi, 10 <sup>5</sup> in fuel
Yarrowia Tropicalis	Fungi, 10 <sup>5</sup> in fuel

**Key:**

Value	Frequency
0	No Colonies Detected
1	Colonies Detected: 1-10
2	Colonies Detected: 11-100
3	Colonies Detected: 101-1000
4	Colonies Detected: >1000

		3 Hrs.	7 Hrs.	1 Day	3 Days	2 Wks.	4 Wks.
<b>B100 Base Fuel</b>	Bacteria	4	4	4	4	4	4
<b>+ FuelClear™ M15 @ 300ppmv</b>	Bacteria	3	0	0	0	0	0
<b>+ FuelClear™ M15 @ 600ppmv</b>	Bacteria	3	0	0	0	0	0
<b>B100 Base Fuel</b>	Mould & Yeast	4	4	4	4	4	4
<b>+ FuelClear™ M15 @ 300ppmv</b>	Mould & Yeast	1	1	0	0	0	0
<b>+ FuelClear™ M15 @ 600ppmv</b>	Mould & Yeast	1	1	0	0	0	0

**Conclusion** FuelClear™ M15 retained all performance benchmarks in B100 Biodiesel and shows a 7 hour 99.9% kill time at the recommended treat rate of 300ppmv.