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Cust Code	BioSolar / CytoCulture
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Company	CytoCulture International, Inc.
End User	PFC / SF Petroleum Co. / City of SF

Taken	4/16/2008	Received	4/17/2008	Unit ID	08-62 Rail Car PROX 77246
Tested	4/17/2008	Reported	4/17/2008	Test Pkg	FTG+TAN+KFW+FPCC
				Fuel Type	Biodiesel Fuel

Biodiesel Quality Status Report – Rail car PROX 77246 reported on 04/18/2008

Unit ID	08-62	Batch Number	7385
Date Sampled	4/16/2008	Sample Number	4268
Test Name	Test Method	Limit	Result Status
Free Glycerin (mass %)	ASTM D 6584	MAX 0.020	0.000 PASS
Monoglycerides (mass %)	ASTM D 6584	N/A	0.031 N/A
Diglycerides (mass %)	ASTM D 6584	N/A	0.017 N/A
Triglycerides (mass %)	ASTM D 6584	N/A	0.000 N/A
Total Glycerin (mass %)	ASTM D 6584	MAX 0.240	0.047 PASS
Flash Point, Closed Cup (°C)	ASTM D 93	MIN 130	176 PASS
KF Water (ppm)	ASTM D 6304	N/A	205 N/A
TAN (mg KOH/g)	ASTM D 664	MAX 0.50	0.14 PASS

Rail Car B100 vs. corresponding pHlip Test Result (85% soy/15% FAME B100 Reference on right) at 10 min.



Rail Car PROX 77246 B100 sampled on 04/16/2008 and corresponding pHlip Test Results on the same day for Top, Middle and Bottom of the rail car. A Reference vial of very high quality biodiesel fuel is on the right. The pHlip Test results indicate good quality biodiesel with no color change or turbidity in the red indicator solution, a fairly clear and bright B100 fuel layer and a good mirror finish in all 3 test vials. There is no evidence of any significant contaminants as corroborated by the laboratory analytical data for the composite sample (25% top: 50% middle: 25% bottom). The composite sample passed all 4 of the selected tests for ASTM D-6751. The total free and bound glycerin level is 0.047% (mostly monoglycerides) and is well below the national average (0.16%) based on a recent NREL survey of 56 samples produced around the country. The fuel is very dry (205 ppm KF moisture) with a corresponding low acid number of 0.14% indicating good transport practices. Small globules of indicator solution were observed in the fuel layer at the interface. These globules indicate traces of substances that would tend to facilitate the transfer of any free water into the fuel, such as very low levels of oxidized methyl esters (measured by OSI). The next day, there was a very fine layer of granular material at the fuel-water interface.

Conclusion: Very good quality, clean and dry biodiesel.