



ISO-17025 Accredited Testing Laboratory

PJLA/ISO/IEC 17025:2005 Testing Accreditation# 59423

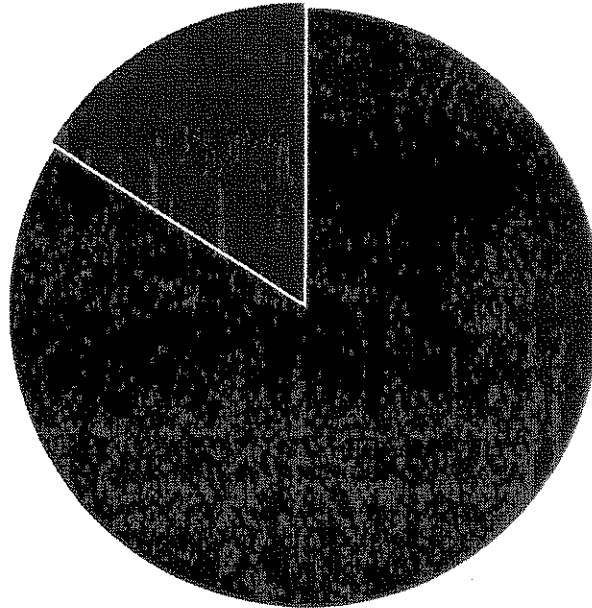
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## Report of Biobased Content Analysis using ASTM-D6866-11

Submitter: Kutol Products Company, Inc.  
Submitter Label: Antibacterial Hand Soap 050  
Laboratory Number: Beta-302110  
Material: Biobased Liquid  
Date Received: July 07, 2011  
Date Reported: July 12, 2011

**Mean Biobased Result : 84 % \***

Proportions Biobased vs. Fossil Based  
indicated by 14C content



\* ASTM-D6866 cites precision on The Mean Biobased Result as +/- 3% (absolute). This is the most conservative estimate of error in the measurement of complex biobased containing solids and liquids based on empirical results. Real precision for readily combustible and homogenous materials (e.g. gasoline) and especially samples received as CO<sub>2</sub> (e.g. flue gas or CEMS exhaust) can be as low as +/- 0.5-2%. The result only applies to the analyzed material. Fluctuations in carbon content within a batch of product, gasoline or flue gas must be determined separately (e.g. averaged measurements of multiple solids or liquids, and single measurement of the combination of gas aliquots collected over time). The accuracy of the result as it applies to the analyzed product, fuel, or flue gas relies upon all the carbon in the analyzed material originating from either recently respired atmospheric carbon dioxide (within the last decade) or fossil carbon (more than 50,000 years old). "Percent biobased" specifically relates % renewable (or fossil) carbon to total carbon, not to total mass or molecular weight. Mean Biobased estimates greater than 100% are assigned a value of 100% for simplification.