

To determine the primary chemical compositions of LQR, the standard two-step acid hydrolysis method recommended by the US National Renewable Energy Laboratory (NREL) was employed [22]. The...

NREL/TP ; 510-42618. Notes Title from title screen (viewed on May 8, 2008). "Revised April 2008." Subject headings Biomass--Laboratory manuals. Biomass conversion--Laboratory ...

Determination of Structural Carbohydrates and Lignin in Biomass Laboratory Analytical Procedure (LAP) Issue Date: April 2008 Revision Date: July 2011 (Version 07-08-2011) A. Sluiter, B. Hames, R. Ruiz, C. Scarlata, J. Sluiter, D. Templeton, and D. Crocker Technical Report NREL/TP-510-42618 Revised July 2011 Determination of Structural ...

Research output: NREL > Technical Report TY - GEN T1 - Determination of Structural Carbohydrates and Lignin in Biomass: Laboratory Analytical Procedure (LAP) (Revised August 2012)

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The aliquots of lignin and delignified solids were chemically analyzed according to the following National Renewable Energy Laboratory (NREL) methods: moisture (NREL/TP-510-42621) [32] and structural carbohydrates and lignin (NREL/TP-510-42618) [33].

The aliquots of lignin and delignified solids were chemically analyzed according to the following National Renewable Energy Laboratory (NREL) methods: moisture (NREL/TP ...

The chemical components of OPEFB were analyzed using the biomass analysis method from the National Renewable Energy Laboratory (NREL) [22]. Cellulose and hemicellulose levels were determined...

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Nrel tp 510 42618 British Virgin Islands

The determination of acid-insoluble residue (Klason lignin) was carried out following the NREL TP-510-42618 standard [24], while acid-soluble lignin was determined using the UV-spectrometer...

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Laboratory Analytical Procedures for standard biomass analysis are available electronically at

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