LT059 GL Sciences Inc.

Analysis of Bio-Diesel Fuel (BDF) by HPLC

In Japan, Agency for Natural Resources and Energy is considering to amend the law "Enforcement Regulation of controlling the quality of volatile oils", which is to strictly control the quality of biodiesel fuels (BDF). As a result, a regulation of the compounds shown in the right table has been added. FAME (Fatty acid methyl esters) and TG (Triglycerides) in BDF are required to be analyzed using the HPLC method. Concentrations of FAME and TG are obtained from their calibration curves that have been already prepared using methyl stearate and trilinolein as their standard, respectively.

(K.Suzuki)

A Chromatogram Obtained from Standard Solution



A chromatogram obtained from BDF

The sample solution was injected after filtration using a 0.45 µm membrane filter and dilution with light oil.



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GL Sciences Inc. Japan 22-1 Nishishinjuku 6-chome Shinjuku-ku, Tokyo 163-1130, Japan

Phone: +81-3-5323-6620 Fax: +81-3-5323-6621 Email: <u>world@gls.co.jp</u> Web: www.glsciences.com

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GL Sciences Inc. USA 4733 Torrance Blvd. Suite 255 Torrance, CA 90503 USA

Phone: +1-310-265-4424 Fax: +1-310-265-4425 Email: info@glsciencesinc.com Web: www.glsciencesinc.com GL Sciences B.V. Dillenburgstraat 7C 5652AM, Eindhoven The Netherlands

Phone: +31-40-254-9531 Email: info@glsciences.eu Web: www.glsciences.eu GL Sciences (Shanghai) Limited Tower B, Room 2003 Far East International Plaza No.317 Xianxia Road, Changning District Shanghai, China 200051

Phone: +86-21-62782272 Email: contact@glsciences.com.cn Web: www.glsciences.com.cn

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