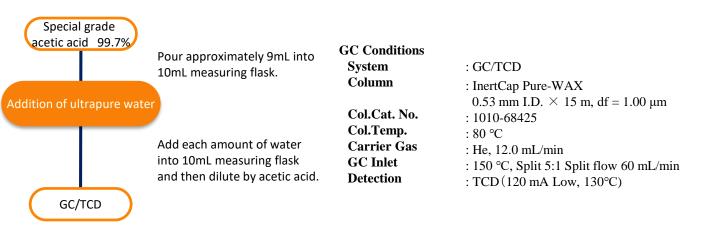
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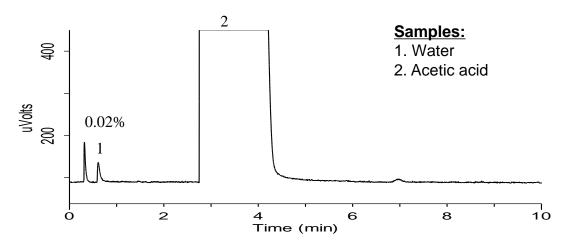
Water contained in acetic acid may sometimes affect the experiment result, such as chemical reaction or mobile phase adjustment of normal phase LC. This time, in order to confirm such quality, water contained in brand-new acetic acid of special grade (higher than 99.7%) was measured simply by the standard addition method.

Procedure of Pretreatment

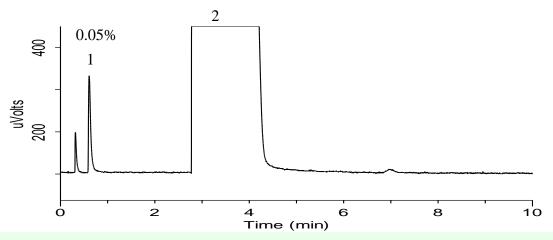


Result

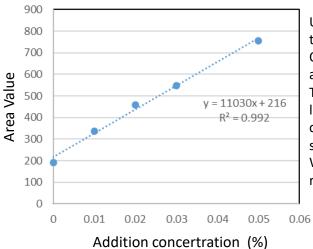
<Chromatogram of special grade acetic acid>



<Chromatogram of special grade acetic acid added with ultrapure water of 0.05%>



Reference: Quantitation by standard addition method



Ultrapure water was added to special grade acetic acid so that the water contain may become 0.010, 0.020, 0.030 and 0.050%. Original water contain becomes relatively reduced when added, and calibration curve is estimated to become a curved line. This time, an even convex curve was obtained, but within the linearity range of R2 = higher than 0.99, quantitation of water contain in special grade acetic acid was implemented simply by standard addition method.

When y-intercept is zero, absolute value [x]=X becomes the result of quantitation. This time the below result was obtained.

$$y = 0 = 11030x + 216$$

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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: world@gls.co.jp

Web: www.glsciences.com

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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