LT029 GL Sciences Inc.

Astaxanthin and cantaxanthin are carotenoids that are used as color enhancers in aquatic animals. The residue limits for cantaxanthin, are set for livestock and fishery foods, and the test methods are described in "Testing methods for pesticide residues in foods, feed additives, or substances that are components of veterinary drugs" (Notification No. 0124001 of the Safety Division, PFSB dated January 24, 2005).

In this report, a High Performance Liquid Chromatography (HPLC) was used with a photodiode array detector (PDA), which is versatile for many diverse applications. (K. Suzuki)



Example: Measurement of standards



HPLC conditions

Column	: Inertsil ODS-SP (5 μm, 150 x 4.6 mm l.D.)
Eluent	: A) CH $_3$ CH B) 0.05 % TFA solution
	A/B = 97/3, v/v (gradient mixer)
Flow rate	: 0.8 mL/min
Column temperature : 40 °C	
Detected	: PDA 480 nm
Injection volume	: 20 μL



Calibration curve



<u>Measurement</u> <u>example</u>

Sample pretreatment example

Pretreatment was performed according to the test method for cantaxanthin described above.





GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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