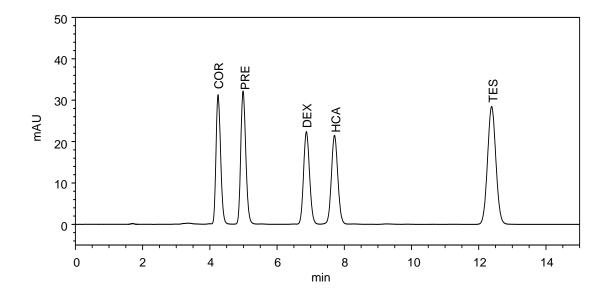
Analysis of Steroids

Steroid drugs have strong anti-inflammatory and immunosuppressive actions and the external preparations containing steroids are used to treat various skin diseases. As an example of the analysis for steroid external preparations, two commercially available ointments were analyzed. Hydrocortisone acetate and prednisolone were detected in the commercially available ointments.



COR: Cortisone PRE: Prednisolone DEX: Dexamethasone

HCA: Hydrocortisone Acetate

TES: Testosterone

SAMPLE 10 μL of Std. Soln. (20 μg/mL each)	PRESSURE
PACKING MATERIAL HITACHI LaChrom C18 (5 μm)	TEMPERATURE 40°C
COLUMN SIZE 4.6 mm I.D. × 150 mm (P/N : 891-5050)	SEPARATION METHOD Partition/Adsorption
ELUENT	DETECTOR UV 254 nm
Methanol / Water = 60 / 40 (v/v)	INSTRUMENTS Chromaster 5110 (Pump), Chromaster 5210
FLOW RATE 1.0 mL/min	(Autosampler), Chromaster 5310 (Column Oven), Chromaster 5420 (UV-VIS Detector)
NOTE Standard stock solution : Prepared with methanol to have the concentration of 100 μg/mL.	

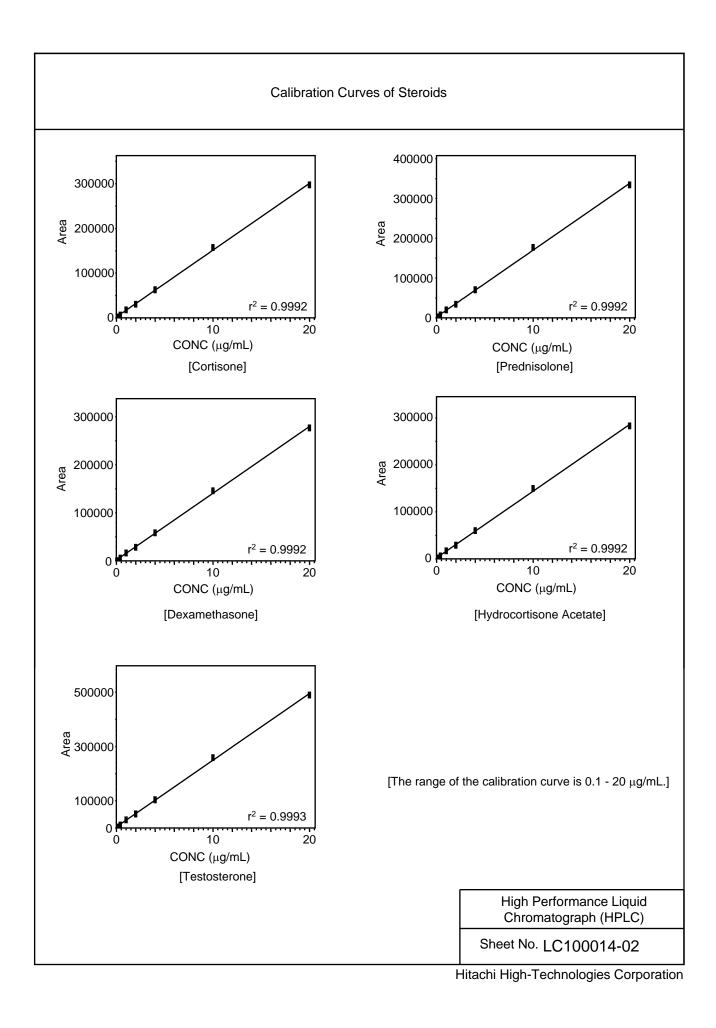
Standard solution : Prepared with methanol to have the concentrations of 0.1, 0.4, 1, 2, 4, 10, and 20 $\mu g/mL$.

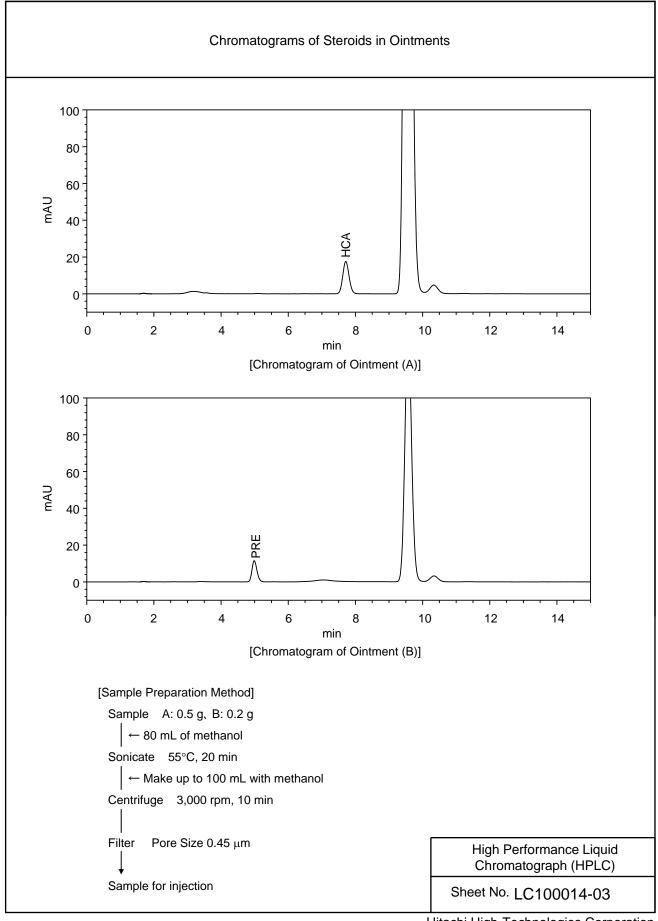
KEY WORDS

Bio/Medical Science/Food/Pharmaceutical, Medicine·Pharmaceutical, Medical Science-Pharmaceutical Science, Steroid, Anti-inflammatory Agent, Steroid Hormone, adrenocortical hormone, Ointment, UV-VIS Spectrometry, Health, LaChrom C18, Chromaster, Partition/Adsorption

High Performance Liquid Chromatograph (HPLC)

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