Company Name: Superman Herbs
Title: Horny goat weed
Plant Part: herb (leaf, flower, stem)
Sample Received: 3/16/2015
Sample Description: Clear Reclosable Plastic Bag
Form of Botanical: powdered extract
Appearance: light brown fine powder
Lot: (90)
Sample: HAQ07515SUP1_1
Latin Name: Epimedium koreanum
Reference Sample: Lane 1(3µl) (CI25611MRH1) Epimedium grandiflorum (leaf); Lane 2(3µl) (FS11407BN) Epimedium sagittatum (leaf); Lane 3(3µl) (OY36304SWH) Epimedium brevicomum (leaf); Lane 7(3µl) (HAQ25211MYWY1) Epimedium koreanum (herb); Lane 8(3µl) (HAQ18911MYWY1) Epimedium koreanum (herb); held at Alkemist Labs, Costa Mesa, CA.
Analyst: JN, ML, JK, CB 54217
Sample Prep: 0.3g +3mL CH3OH sonicate/heat @~50° C ~ 1/2 hr.
Stationary Phase: Silica gel 60, F254, HPTLC plates
Mobile Phase: ethyl acetate: Acetic acid: HCOOH: H2O [10/0.9/0.9/2]
Detection: (1) UV 365 nm
(2) Natural Product Reagent + PEG → UV 365 nm
Reference Source: Method Developed by Alkemist Labs
IDT-SOP-72-01

Comments & Conclusions:

Yellow line = sample origin @ 10mm, red line = solvent front @ 70mm. Lane 6 is the test sample Horny goat weed (90). Lanes 1, 2, 3, 7, 8 are the reference samples used for comparison. This test sample, Horny goat weed (90), is consistent with the chromatographic profile of the reference samples of Epimedium sp., used above. This test sample, Horny goat weed (90) is characteristic of an extract derived from Epimedium sp. herb (leaf, flower, stem).

NOTE: The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.