



ANALYTICAL REPORT

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P.O.#:

DATE: July 10, 2016

	Lab Number:	33504-01
Sample: Mr. Fluvic	Lot Number:	160626-1

Analyte	Result	Unit
Fulvic Acid	56.22	mg / ml

Fulvic acid analyzed as total vanillin-catechin conjugates using modified methodology of Larry G. Butler et al., "Vanillin Assay for Proanthocyanidins [Condensed Tannins]: Modification of the solvent for Estimation of the degree of Polymerization" as published in J. Agric. Food Chem., 30, 1087-1089, vanillin reagent prepared as 750ml with 15g ammonium iron sulfate in n-butanol/hydrochloric acid (95:5). For the determination of total catechin on 2% sol of initial extract in a 50ml volumetric flask containing 25ml of methanol; 2.5ml of Vanillin reagent added and heated to 95°C for 40mins after cooling diluted to volume with methanol, the absorbance of both the standard solutions and sample is measured at 550nm. Authentic reference material obtained from Sigma-Aldrich.

Dinesh Patel, Ph.D.
Laboratory Director

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