

National and Kapodistrian University of Athens

Date: 24th May 2017

CERTIFICATE OF ANALYSIS

Product	Pure Happiness	
Herbal content	Mountain tea (Sideritis spp.) Lemon balm (Melissa officinalis) Sage (Salvia spp.) Mint (Mentha spp.)	
Recommended dose	1 g	
	Method	Results
Extract preparation	Hot water extraction	Yield of extraction: 23.9%
Quality control – Chemical analysis	High performance thin layer chromatography (HPTLC)	Polyphenols, Flavonoids, Tannins
	Total Phenolic Content (Folin Ciocaleu's method)	42.0 mg GA/dose [gallic acid equivalent (mg) / dose (1 g dry material)]
	Total Flavonoid Content (Aluminium chloride colorimetric method)	11.7 mg Quercetin/dose [quercetin equivalent (mg) / dose (1 g dry material)]
Total Antioxidant Capacity	DPPH scavenging colorimetric method	200 ug extract/ml: 88.9% inhibition of DPPH free radical 100 ug extract/ml: 88.2% inhibition of DPPH free radical
Comments	PURE HAPPINESS is characterized by high phenolic content and strong antioxidant capacity that is correlated with the contained herbs like mountain tea which is rich in flavonoids and tannins, as well as mint and sage which are rich in rosmarinic acid and other phenolic compounds.	

Dr. N. Fokialakis