

1837
2017
YEARSHELLENIC REPUBLIC
National and Kapodistrian
University of AthensDate: 24th May 2017

CERTIFICATE OF ANALYSIS

Product	Pure Defence	
Herbal content	Mountain tea (<i>Sideritis spp.</i>)	
	Dittany (<i>Origanum dictamnus</i>)	
	Wild rose (<i>Rosa canina</i>)	
	Wild mint (<i>Mentha pulengium</i>)	
Recommended dose	2 g	
Method		Results
Extract preparation	Hot water extraction	Yield of extraction: 24%
Quality control – Chemical analysis	High performance thin layer chromatography (HPTLC)	Polyphenols, Flavonoids, Tannins
	Total Phenolic Content (Folin Ciocaleu's method)	47.3 mg GA/dose [gallic acid equivalent (mg) / dose (2 g dry material)]
	Total Flavonoid Content (Aluminium chloride colorimetric method)	10.9 mg Quercetin/dose [quercetin equivalent (mg) / dose (2 g dry material)]
Total Antioxidant Capacity	DPPH scavenging colorimetric method	200 ug extract/ml: 89.7% inhibition of DPPH free radical
		100 ug extract/ml: 63.1% inhibition of DPPH free radical
Comments	<p>PURE DEFENCE is characterized by high phenolic & flavonoid content and has significant antioxidant capacity that is correlated with the contained herbs like mountain tea which is rich in flavonoids and tannins, as well as wild mint which is rich in rosmarinic acid and other phenolic compounds.</p>	

Validated by:

Dr. N. Fokialakis

