

CERTIFICATE OF ANALYSIS

Product Name: Black Ginger powder (*Kaempferia parviflora*)
Product Code: KP-ps
Lot. No. SKP69010901
Manufacturing Date: 09 JAN 2026
Expiry Date: 08 JAN 2028

Profile	Specification	Result
Physical Analysis		
Appearance:	Fine purple powder	Conforms
Moisture:	Not more than 8 %	5.33 %
Particle size:	99% through 80 mesh	Conforms
Chemical Analysis (Quantitative analysis)		
Active compounds (%): 5,7-dimethoxyflavone (DMF) 3,5,7,3',4' – pentamethoxyflavone (PMF) 5,7,4' – trimethoxyflavone (TMF)	5,7-dimethoxyflavone > 0.5	DMF 1.200 % PMF 1.378 % TMF 1.568 % Total Methoxyflavones 4.146 %
Heavy Metal Analysis		
Arsenic:	< 0.5 ppm	Conforms
Lead:	< 1 ppm	Conforms
Cadmium:	< 0.5 ppm	Conforms
Mercury:	< 0.5 ppm	Conforms
Pesticide Residue Analysis		
Organochlorine group:	Not detected	Not detected
Organophosphate group:	Not detected	Not detected
Pyrethroid group:	Not detected	Not detected
Carbamate group:	Not detected	Not detected
Microbiology Analysis		
Total aerobic plate count:	< 10 ⁴ cfu/g	< 100
Yeast and Mold:	< 100 cfu/g	< 10
Coliforms:	Negative	< 3
Escherichia coli:	Negative	Conforms
Staphylococcus aureus:	Negative	Conforms
Salmonella spp.	Negative	Conforms
Bacillus cereus:	< 10	< 10

Witoon Youngsa-ad
Technician Responsible

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Quantitative Analysis

Typical composition, Guaranteed Potency:

Content as measured by HPLC,

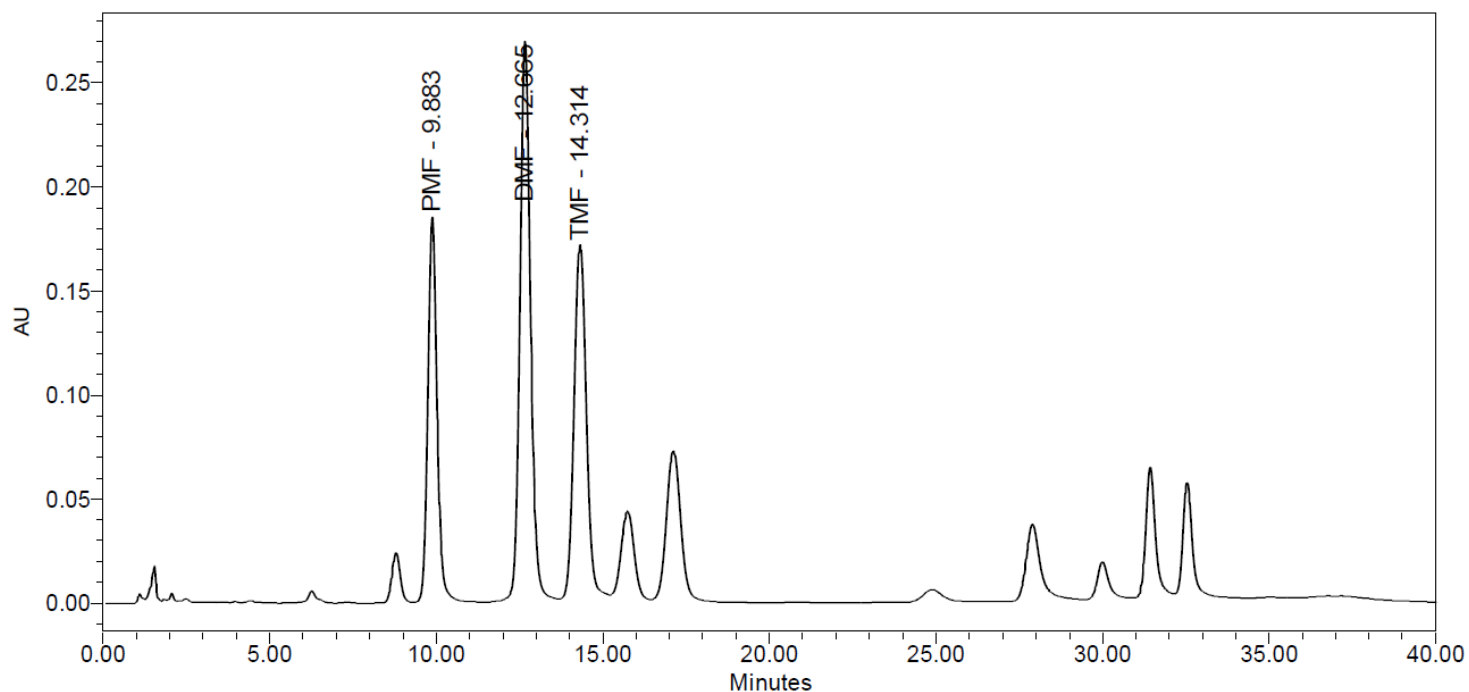


Figure 1, Chromatogram of *Kaempferia parviflora* powder contains 3,5,7,3',4'-pentamethoxyflavone 1.378 %, 5,7-dimethoxyflavone 1.200 % and 5,7,4'-trimethoxyflavone 1.568 % w/w.