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**CERTIFICATE OF ANALYSIS**

Product Name	Kava P.E.	Batch Number	SC20190305
Part of the Plant	Root	Manufacture Date	March.05,2019
Quantity	25kg	Retest Date	March.04,2021

Item	Specification	Result	Method
<b>Basic Product</b>			
Genus and Species	<i>Piper methysticum</i>	Conform	/
Country of Origin	Fiji	Conform	/
<b>Marker Compounds</b>			
Kavalactones	>30.0%	30.11%	HPLC
<b>Organoleptic Data</b>			
Appearance	Fine Powder	Conform	GJ-QCS-1008
Color	Brown	Conform	GB/T 5492-2008
Odor	Characteristic	Conform	GB/T 5492-2008
Taste	Characteristic	Conform	GB/T 5492-2008
<b>Process Data</b>			
Method of Processing	Extraction	Conform	/
Solvent(s) Used	Ethanol & Water	Conform	/
Drying Method	Vacuum drying	Conform	/
Excipient	None	Conform	/
<b>Physical</b>			
Particle Size (100 mesh)	98.0%pass 100mesh	Conform	GB/T 5507-2008
Loss on Drying	<5.0%	3.58%	GB/T 14769-1993
Ash Content	<5.0%	2.24%	AOAC 942.05, 18th
Solubility	Soluble in water and ethanol.	Conform	Visual
Solvent Residue	Eur.Pharm	Conform	GJ-QCS-1007
<b>Heavy Metals</b>			
Total Heavy Metals	<10ppm	Conform	USP <231>, method II
As	<2.0ppm	Conform	AOAC 986.15, 18th
Pb	<2.0ppm	Conform	AOAC 986.15, 18th
Cd	<0.5ppm	Conform	AOAC 986.15, 18th
Hg	<0.5ppm	Conform	AOAC 971.21, 18th
<b>Pesticide Residue</b>			
666	<0.2ppm	Conform	GB/T5009.19-1996
DDT	<0.2ppm	Conform	GB/T5009.19-1996
<b>Microbiology</b>			
Total Plate Count	<5000cfu/g	Conform	AOAC 990.12, 18th
Total Yeast & Mold	<500cfu/g	Conform	FDA (BAM) Chapter 18, 8th
E. Coli	Negative	Negative	AOAC 997.11, 18th
Salmonella	Negative	Negative	FDA (BAM) Chapter 5, 8th

