



QUALITY CONTROL DEPARTMENT

DOC NO.	:	NR/QCD/AHP/FP/SPC/EXP-It/155
ISSUE DATE	:	16/05/2019
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TITLE : PRODUCT SPECIFICATION

SPECIFICATION

Product name	:	Phytocee powder
Category	:	Feed Supplement , Powder
Storage condition	:	Store in cool, dry place, away from fire, heat and sunlight

S. No.	Parameters	Specification	Protocol Reference
1.	Description		
	Appearance/color/odour/texture	Light brown to dark brown powder with a characteristic odour.	Visual
2.	Identification		
	By thin layer chromatography	To pass the test	In-house
3.	Physicochemical analysis		
	pH of 5%w/v solution	Between 2.5 and 4.5	As per USP <791>
	Bulk density (g/cc)	Between 0.3 and 0.6	As per USP <616>-Method-I
	Acid insoluble ash (% w/w)	Not more than 4.0	As per USP <561>
	Alcohol soluble extractive value (% w/w)	Not less than 28.0	As per USP <561>- Method-I
	Water soluble extractive value (% w/w)	Not less than 35.0	As per USP <561>- Method-I
	Moisture (%w/w)	Not more than 10.0	As per USP <731>
	Crude protein (%w/w)	Between 8.0 and 10.0	As per AOAC
	Crude fat (%w/w)	Between 0.3 and 2.0	As per AOAC
	Crude fibre (%w/w)	Between 14.0 and 25.0	As per AOAC
	Crude ash (%w/w)	Not more than 12.0	As per USP <561>
	Sodium (%w/w)	Between 0.1 and 0.5	AOAC 2011.14
	Lysine (%w/w)	Between 0.005 and 0.01	By LC-MSMS
	Methionine (%w/w)	Between 0.005 and 0.01	By LC-MSMS
4.	Microbiology Test		
	<i>E. coli</i>	Absent/g	Absent
	<i>Salmonella species</i>	Absent/10g	Absent
5.	Heavy metal analysis		
	Lead (ppm)	Not more than 10.0	By ICPMS
	Arsenic (ppm)	Not more than 4.0	
	Cadmium (ppm)	Not more than 0.5	
	Mercury (ppm)	Not more than 0.1	

Prepared by:

Approved by:

Approved by:

Issued By:

Senior Officer – QC

Manager – QC

Manager -NPD

Dy. Manager – QA

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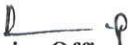

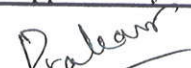



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5.	Pesticide Residual analysis		 By AOAC/GC MSMS/GC-ECD
	Aldrin + Dieldrin	Not more than 0.01	
	Canfene chlorurate (toxafene)	Not more than 0.1	
	Chlordane (cis+trans isomers)	Not more than 0.02	
	DDT (Σ of isomers) (ppm)	Not more than 0.05	
	Endosulphan (α + β isomers) (ppm)	Not more than 0.1	
	Endrin (ppm)	Not more than 0.1	
	Heptachlor (ppm)	Not more than 0.1	
	Hexachlorobenzene HCB (ppm)	Not more than 0.01	
	Hexachlorocyclohexane HCH (ppm) - (α isomer)	Not more than 0.02	
	(β isomer)	Not more than 0.01	
	(γ isomer)	Not more than 0.2	
6	Aflatoxins B1 (ppm)	Not more than 0.01	As per USP/LC-MSMS
7	Fluorine (ppm)	Not more than 500	Potentiometric method

Prepared by:	Approved by:	Approved by:	Issued By: \angle
 Senior Officer – QC Date: 16/05/2019	 Manager – QC Date: 16/05/2019	 Manager -NPD Date: 16/05/2019	 Dy. Manager – QA Date: 16/05/2019