



CERTIFICATE OF ANALYSIS

Unique Ref Number:	6600041709-03-001	Manufacturing date:	JUL-2020
Contract No.:	1490001234-30	Best before date:	JUL-2022
Po No	4500713060-30	Quantity (Ton):	1.814
Cust Product code:	750218500	Package Size(Kg):	50LB, NET WEIGHT
Product Code:	GPUS1361	Package Type:	PA + CARTON
Product Name:	ORGANIC BLACK PEPPER GROUND HTST	Container No:	FDCU0541725
Customer:	OLAM WEST COAST INC		

The following result are based on the testing of representative sample of the above product

Physical Characteristics	Method	Result	Target	Unit
Particle size	5% on 60# (0.25mm)	2.8	% w/w, max	ASTA 10.0
Aroma	Same as reference sample	Passed	-	Sensory test
Color	Same as reference sample	Passed	-	Sensory test
Chemical Characteristics	Method	Result	Target	Unit
Moisture	12.0	10.5	% v/w, max	ASTA 2.0
Volatile oil	1.0	1.43	% v/w, min	ASTA 5.0
Piperine	4.0	6.71	% w/w, min	ASTA 12.1
AIA	1.5	0.51	% w/w, max	ASTA 4.0
Total Ash	7.0	3.51	% w/w, max	ASTA 3.0
Microbiological Characteristics	Method	Result	Target	Unit
TPC	50,000	15,000	cfu/g, max	FDA BAM
Salmonella	Negative	Negative	/375g	FDA BAM
E.coli	Negative	Negative	/g	FDA BAM
Coliforms	50	<10	cfu/g, max	FDA BAM
Yeast & Mold	100	<10	cfu/g, max	FDA BAM
Screening test	Method	Result	Target	Unit
Ochratoxin A	15.0	Not detected (LOD=1)	ppb, max	AOAC 2007 (2000.03)
Aflatoxin B1	5.0	Not detected (LOD=0.1)	ppb, max	ASTA 24.2
Aflatoxin Total (B1, B2, G1, G2)	10.0	Not detected (LOD=0.1/ea)	ppb, max	ASTA 24.2

THE PRODUCT IS CERTIFIED TO MEET THE SPECIFICATION

Prepared by:	Approved by:
	
Dang Thi Hong	Nguyen Duy Uyen Quality Assurance Manager