



CERTIFICATE OF ANALYSIS

Unique Ref Number:	6600037322-02-001	Manufacturing date:	MAY-2020
Contract No.:	1490001052-30	Best before date:	MAY-2022
Po No	4500692905-30	Quantity (Ton):	3.742
Cust Product code:	750013400	Package Size(Kg):	50LB, NET WEIGHT
Product Code:	GPUS1352	Package Type:	PA + CARTON
Product Name:	ORGANIC BLACK PEPPER CRACKED HTST	Container No:	CMAU4566515
Customer:	OLAM WEST COAST INC		

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

Physical Characteristics	Target	Result	Unit	Method
Particle size	5% on 25# (0.71mm)	1.48	% w/w, max	ASTA 10.0
Particle size	5% thru 60# (0.25mm)	2.2	% w/w, max	ASTA 10.0
Aroma	Same as reference sample	Passed	-	Sensory test
Color	Same as reference sample	Passed	-	Sensory test
Chemical Characteristics	Target	Result	Unit	Method
Moisture	12.0	9.0	% v/w, max	ASTA 2.0
Volatile oil	1.0	1.68	% v/w, min	ASTA 5.0
Piperine	4.0	5.12	% w/w, min	ASTA 12.1
AIA	1.5	0.57	% w/w, max	ASTA 4.0
Total Ash	7.0	4.95	% w/w, max	ASTA 3.0
Microbiological Characteristics	Target	Result	Unit	Method
TPC	50,000	3,500	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
Mycotoxins (Screening test)	Target	Result	Unit	Method
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