



## OLAM VIETNAM LIMITED CERTIFICATE OF ANALYSIS

Unique Ref Number: 6600102007-04-003  
 Contract No.: N/A  
 Po No: N/A  
 Cust Product code: 4050029391600/4000524300100  
 Product Code: GPUS1204  
 Product Name: BLACK PEPPER CRACKED - MEDIUM  
 Customer: GLENDALE AFLOAT

Manufacturing date: 16-SEP-2022  
 Best before date: 16-SEP-2024  
 Quantity (Ton): 1.034  
 Package Size(Kg): 40LB, NET WEIGHT  
 Package Type: BROWN CARTON + BLUE LDPE  
 Container No: EMCU8778639

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

Physical Characteristics	Target	Result	Unit	Method			
Particle size	2% on 16# (1.18mm)	1.9	% w/w, max	ASTA 10.0			
Particle size	10% thru 40#(0.425mm)	9.5	% w/w, max	ASTA 10.0			
Extraneous matter, insect fragments	200	Not detected	count/50g, max	ISO 927			
Extraneous matter, rodent hairs	1.0	Not detected	count/50g, max	ISO 927			
Aroma	Same as reference sample	Pass	-	Sensory test			
Color	Same as reference sample	Pass	-	Sensory test			
Chemical Characteristics	Target	Result	Unit	Method			
Moisture	12.0	11.23	% v/w, max	ASTA 2.0			
Volatile oil	2.0	2.50	% v/w, min	ASTA 5.0			
Piperine	4.0	5.27	% w/w, min	ASTA 12.1			
AIA	1.0	0.39	% w/w, max	ASTA 4.0			
Total Ash	7.0	3.47	% w/w, max	ASTA 3.0			
Microbiological Characteristics	m	M	n	c	Result	Unit	Method
TPC	50,000	100,000	5	2	S1: 100	cfu/g	FDA BAM
					S2: 450		
					S3: 100		
					S4: 350		
					S5: 250		
Salmonella	0	0	15	0	Not Found LOD = 2	/375g	ISO 6579-1:2017/Amd 1:2020 External Lab - SGS VietNam
Coliforms	10	100	5	2	S1: <10	cfu/g, max	FDA BAM
					S2: <10		
					S3: <10		
					S4: <10		
					S5: <10		
Yeast & Mold	100	1,000	5	2	S1: <10	cfu/g, max	FDA BAM
					S2: <10		
					S3: 10		
					S4: <10		
					S5: 10		
Listeria monocytogenes	0	0	5	0	Not Found LOD = 1.4	/125g	ISO 11290-1:2017 External Lab - SGS VietNam

*[Signature]*  
6.10.22



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

Screening test	Target	Result	Unit	Method
Ochratoxin A	15.0	Not detected (LOD=0.5)	ppb, max	AOAC or Equivalent Method
Aflatoxin B1	5.0	Not detected (LOD=0.5)	ppb, max	AOAC or Equivalent Method
Aflatoxin Total (B1, B2, G1, G2)	10.0	Not detected (LOD=0.5)	ppb, max	AOAC or Equivalent Method
Non-Volatile oil ether extract	7.0	9.57	% w/w, min	ISO 1108:1992

### Abbreviation:

n= Number of samples

c= Limit value for the number of samples with a microbiological count between m and M

M= Limit level for germ count

m= Guidance level for microbiological count

THE PRODUCT IS CERTIFIED TO MEET THE SPECIFICATION

Prepared by:

Phan Thi My Le

Approved by:

*on behalf of*

Nguyen Duy Uyen  
Quality Assurance Manager