

	<b>PRODUCT SPECIFICATION</b>	Specification No.: WPUS041
	<b>White Pepper ASTA</b>	Version: 02

**Product Identification**

Product : **White Pepper ASTA**  
 Ingredient : Piper Nigrum L  
 Olam Sample Code : WPUS041 Customer ref: 750092400  
 Treatment : Steam Treated (HTST)

Physical Characteristics	Target	Unit	Method
Foreign matter	: 0.2	% w/w, max	ASTA 14.0
Black berries	: 3.0	% w/w, max	ASTA 14.0
Broken berries	: 2.0	% w/w, max	ASTA 14.0
Aroma	: Sharp, Penetrating, Pungent		

Chemical Characteristics	Target	Unit	Method
Moisture	: 12.5	% v/w, max	ASTA 2.0
Volatile oil	: 2.0	% v/w, min	ASTA 5.0
Piperine	: 5.0	% w/w, min	ASTA 12.1
AIA	: 0.3	% w/w, max	ASTA 4.0
Total Ash	: 3.5	% w/w, max	ASTA 3.0

Microbiological Characteristics	Target	Unit	Method
TPC	: 50,000	cfu/g, max	FDA BAM
Salmonella	: Negative	/375g	FDA BAM
E.coli	: Negative	cfu/g, max	FDA BAM
Coliforms	: 50	cfu/g, max	FDA BAM
Yeast & Mold	: 100	cfu/g, max	FDA BAM

Mycotoxins (Screening test)	Target	Unit	Method
Ochratoxin A	: 15.0	ppb, max	AOAC 2007 (2000.03)
Aflatoxin B1	: 5.0	ppb, max	ASTA 24.2
Aflatoxin Total (B1, B2, G1, G2)	: 10.0	ppb, max	ASTA 24.2

**Packing**

50 Lbs, Packing  
 1. PE/PA bags (thick) – heat sealed and covered with Corrugated Carton Boxes (5 Ply)

**Health and Safety**

The product is manufactured, packaged, stored and shipped in accordance with Global Standard Food Safety (BRC, ISO 22000).  
 The product is considered 'KOSHER' under the criteria established by the Union of Orthodox Jewish Congregations of America.  
 The product is free from GMO and Purposeful Irradiation.  
 The product is free of Allergens.

**Storage and Shelf-Life**

Storage Recommendation: Product should be stored in cool and dry place at ambient temperature.  
 Best before: 2 Years (24Months)

**Abbreviations**

v/w: volume/weight      w/w: weight/weight      cfu/g: colony forming units / gram  
 ppb: parts per billion      AIA: Acid Insoluble Ash

Specification status	Date of issue	Next Review	Retain Until	Page 1 of 1
Approved	05-Apr-20	05-Apr-23	05-Apr-26	

*Electronic Copy no signature required.*