

## VIETNAM BLACK PEPPER GROUND 16 MESH

### PHYSICAL CHEMICAL PROPERTIES

| Parameters                        | Unit            | Specification | Method of analysis |
|-----------------------------------|-----------------|---------------|--------------------|
| Particle size, On us 14 mesh      | % (m/m) max     | 10            | ASTA Method 10.0   |
| Particle size, Through us 20 mesh | % (m/m) max     | 10            | ASTA Method 10.0   |
| Moisture                          | % (m/m) max     | 12            | ASTA Method 2.0    |
| Volatile Oil                      | % (ml/100g) min | 1.5           | ASTA Method 5.2    |
| Piperine                          | % (m/m) max     | 4             | ASTA Method 12.1   |
| Total ash                         | % (m/m) max     | 7             | ASTA Method 3.0    |

### MICROBIOLOGICAL PROPERTIES

| Parameters        | Unit       | Specification | Method of analysis |
|-------------------|------------|---------------|--------------------|
| Salmonella spp.   | /25g       | Negative      | FDA Bam Chapter 5  |
| TPC               | cfu/g, max | 50000         | FDA Bam Chapter 3  |
| Escherichia. Coli | MPN/g      | Negative      | FDA Bam Chapter 4  |
| Coliforms         | MPN/g, max | 100           | FDA Bam Chapter 4  |
| Yeasts            | cfu/g, max | 200           | FDA Bam Chapter 18 |
| Molds             | cfu/g, max | 200           | FDA Bam Chapter 18 |

### MYCOTOXIN PROPERTIES

| Parameters                       | Unit    | Specification | Method of analysis       |
|----------------------------------|---------|---------------|--------------------------|
| Aflatoxin B1                     | ppb max | 5             | DIN EN 14123:2008-03 mod |
| Aflatoxin Total (B1, B2, G1& G2) | ppb max | 10            | DIN EN 14123:2008-03 mod |
| Ochratoxin A                     | ppb max | 15            | AOAC 2000.09             |

**TINMAI CO., LTD**



**DIRECTOR**  
*Nguyen Huong Quynh*