



TAMAQUA PA 18252

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### CERTIFICATE OF ANALYSIS

#### IDENTIFICATION

**Product Name:** Fennel Seed Extract Powder 4:1  
**Botanical Name:** Foeniculum Vulgare  
**Part Used:** Seeds  
**Origin:** Egypt

#### ANALYSIS

Description  
Identification  
Color  
Taste  
Odor  
Moisture  
Heavy Metals  
    Lead  
    Arsenic  
Extraction Method  
Mesh Size

#### SPECIFICATION

Powder  
Positive  
Yellowish Tan  
Characteristic  
Aromatic  
≤10.0%  
≤10ppm  
≤1ppm  
≤1ppm  
Ethanol & Water  
100% through USS 60

#### RESULTS

Powder  
Conform  
Yellow  
Mild Bitter  
Aromatic  
6.80%  
<10ppm  
0.58ppm  
0.41ppm

#### TEST

Visual  
TLC  
Visual  
Organoleptic  
Organoleptic  
AOAC  
ICP-MS

#### EXTRACT STRENGTH

Volatile Oil  
Extract Ratio 4:1 (Parts of Botanical: Parts of native extract)

#### MICROBIOLOGICAL

Total Plate Count	≤70,000cfu/g	10,000cfu/g	USP <2021>
Yeast	≤1,000cfu/g	100cfu/g	USP <2021>
Mold	≤1,000cfu/g	100cfu/g	USP <2021>
Coliforms	≤100cfu/g	<100cfu/g	FDA BAM
E. coli	Absent/10g	Absent/10g	USP <2022>
Salmonella	Negative/25g	Negative/25g	AOAC 991.14

#### Storage:

Store in a tightly, sealed container in a cool and dry area.  
Keep away from strong light and heat.  
This product is Non-GMO.  
This product is not treated with ETO, nor is it Gamma irradiated.