



TAMAQUA PA 18252

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### CERTIFICATE OF ANALYSIS

#### IDENTIFICATION

**Product Name:** Licorice Root Extract 4:1  
**Botanical Name:** Glycyrrhiza Glabra  
**Part Used:** Root  
**Origin:** China

#### ANALYSIS

Description  
Identification

Color

Taste

Odor

Moisture

Heavy Metals

(Pb)

(As)

Extraction Method

Mesh Size

#### SPECIFICATION

Powder

Positive

Tan

Characteristic

Characteristic

10.0% Max

≤15ppm

≤3ppm

≤1ppm

Ethanol - Water

94%through 40 mesh

#### RESULT

Powder

Conform

Tan

Conform

Bitter

6.00%

<15ppm

1.05ppm

0.801ppm

#### TEST

Visual

TLC

Visual

Organoleptic

Organoleptic

AOAC

ICP-MS

ASTA

#### Extract Strength

Herbal Strength

4:1

(Parts of Botanical: Parts of native extract)

#### Microbiological Counts

Total Plate Count

Yeast

Mold

Coliforms

E. coli

Salmonella

≤120,000cfu/g

≤1,000cfu/g

≤1,000cfu/g

≤100cfu/g

Absent/10g

Negative

110,000cfu/g

100cfu/g

100cfu/g

50cfu/g

Absent/10g

Negative

FDA BAM

FDA BAM

FDA BAM

FDA BAM

USP <2021>

FDA BAM

#### 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.