

GALAB Laboratories GmbH • Am Schleusengraben 7 • D - 21029 Hamburg • Germany

**Report: P2022163774****Sample: 2022168695**

Client:

Order:

Sample receipt: 25.11.2022

Services completed: 25.11.2022 - 30.11.2022

Material: nuts/seeds

Sampling: by sender

Sample transport: by sender

Sample storage until: 28.12.2022

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Hamburg, 30 November 2022

## Results

### Sample identification:

Art: Chinese Pine Nut Kernels; Grade A/Class I, abt. 950 count; Lot No.: 48/11.22; Verpackung: cartons of 25 kg net

### Mycotoxins

Method: SOP-138: 2021-11 oder SOP-502: 2017-03 (matrix based)

Parameter	Content	Unit	LOQ
Aflatoxin B1	<1,0	µg/kg	1,0
Aflatoxin B2	<1,0	µg/kg	1,0
Aflatoxin G1	<1,0	µg/kg	1,0
Aflatoxin G2	<1,0	µg/kg	1,0
Sum Aflatoxins	-	µg/kg	-

LOQ = Limit of quantification

### Evaluation:

Regarding the aflatoxins analysed the sample complies with the requirements of the Regulation (EC) No. 1881/2006 in its currently valid version.

The results and the evaluation are exclusively related to the tested sample as received.

For any further questions please contact your customer service representative: Vanessa Monschein Tel. +49 40 / 368077 427

V. Monschein (Staatlich geprüfte Lebensmittelchemikerin) / Dr. Alexandra Hahn (Staatlich geprüfte Lebensmittelchemikerin)

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Eurofins Genomics Europe Applied Genomics GmbH, Anzinger Str. 7 a, D-85560 Ebersberg

Person in charge: Dr. Torsten Brendel  
Report date: 05.12.2022

**Analytical Report: Pine Nut Authenticity**  
**Sample Code 22\_PF\_003475**

**Sample Name:** Chinese Pine Nut Kernels Grade A/Class I, abt. 950 count  
**Client Sample Code:** Lot No: 48/11.22  
**Sample Matrix:** Pine nuts  
**Sample Code:** 22\_PF\_003475  
**Amount:** 192 g  
**Ordered by:**  
**Sample Shipped from:**  
**Courier:** UPS  
**Received on:** 25.11.2022  
**Packaging:** Plastic bag  
**Start/End of Analysis:** 25.11.2022 / 05.12.2022

**Test:** **BJ043 - Pine Nut Authenticity**  
**Method:** PCR and subsequent FLA specific for chloroplast regions of pine nuts (SOP\_APG\_div.Speziestests\_BJ043\_2.0)  
**Sample preparation:** DNA is extracted with a commercially available kit  
**Method parameters:** LOD: 3% (Pinus armandii), Internal validation  
**Reference samples:** Pinus armandii and other pine nut species from different known sources

Analytical Report\_BJ043\_Pine Nut\_3.0\_14.03.19

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**Test result 22 PF 003475:**

Major Pine nut variety:  
Minor Pine nut variety:

Pinus sibirica  
none

**Conclusion:**

The sample contains one pine species within the detection limit. The DNA Profile of the detected Pinus sibirica can be clearly distinguished from the Pinus armandii DNA profile. Therefore it can be excluded that the analysed sample contains Pinus armandii within the detection limit of 3%.

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