

Certificate of Analysis

Manufacturer	Chongqing Joywin Natural Products Co., Ltd.	Address	66# Wutong Road, Baisha Industrial Park, Jiangjin District, Chongqing, China
Product Name:	Bromelain	Botanical Name:	<i>Ananas comosus</i>
CAS No:	37189-34-7	Part used:	Pineapple stem
Country of Origin:	China(Raw material come from Thailand)	Quantity:	300kg
Batch No:	BR20210301	Report Date:	2021.03.03
Manufacture Date:	2021.02.25		
Expiry Date:	2022.02.24		
Analysis	Specifications	Results	Method
Appearance	Off-white or light yellow powder	Conforms	Visual
Odor	Characteristic	Conforms	Sensory
Bromelain activity	≥2000 GDU/g	2040GDU/g	GDU method
Loss on drying	≤10.0g/100g	5.88g/100g	USP39 <731>
Residue of Ignition	≤6.0g/100g	4.5g/100g	USP39 <281>
As	≤3.0mg/kg	Conforms	USP39<233>ICP-MS
Pb	≤5.0mg/kg	Conforms	USP39<233>ICP-MS
Hg	≤1.5mg/kg	Conforms	USP39<233>ICP-MS
Cd	≤1.0mg/kg	Conforms	USP39<233>ICP-MS
Total Plate Count	≤10000CFU/g	150CFU/g	USP39<61>
Yeasts&Moulds Count	≤100CFU/g	10CFU/g	USP39<61>
E.Coli	Negative	Negative	USP39<62>
Salmonella	Negative	Negative	USP39<62>
S.aureus	Negative	Negative	USP39<62>

Non-irradiation ● No allergens

Conclusion: Meet the standard requirements

Storage conditions: Sealed and store in cool and dry place. For long time storage, please seal and store at/below 5°C to keep the enzyme activity.

QC Manager: *Amelie Liao*

Date: 2021.03.03

