



FORMOSA LABORATORIES, INC.

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Certificate of Analysis

Product: Capsaicin		CAS No.: 404-86-4	
		Molecular weight: 305.42	
Lot No.:	F001-20001	Amount: 54.96 kg	MFG. date: Feb. 02, 2020 Expiry date: Feb. 02, 2025
Test		Specification	Results
1. Appearance		White to pale yellow powder	White powder
2. Color and clarity of solution		Clear, colorless to slightly brown solution	Clear, colorless solution
3. Identification (IR), USP<197K>		Conforms to standard	Conforms to standard
4. Melting point, USP<741>		66.0 ~ 70.0°C	69.2°C
5. Loss on drying, USP<731>		NMT 1.00%	0.40%
6. Residue on ignition, USP<281>		NMT 1.00%	0.05%
7. Heavy metals, USP37<231>		NMT 10 ppm	< 10 ppm
8. Assay (HPLC)		98.0 ~ 102.0%	100.3%
9. Related compounds (HPLC)			
a. Vanillylamine HCl		NMT 0.10% w/w	Not detected
b. Dienamide 1		NMT 0.10% w/w	Not detected
c. Dienamide 2		NMT 0.10% w/w	Not detected
d. <i>cis</i> -Capsaicin		NMT 1.0% w/w	0.28% w/w
e. Any unidentified unknown		NMT 0.10% w/w	Not detected
f. Total related substances		NMT 2.0% w/w	0.28% w/w
10. Residual solvents (GC)			
a. Ethyl acetate		NMT 500 ppm	Not detected
b. Cyclohexane		NMT 380 ppm	72 ppm

Above test methods of which the reference is not indicated are developed in-house.

For Manufacturing Use.

Storage condition: Store at or below 25°C, protect from light.

Testing method: F001A.TS.E4

Specification: F001A.S00.E6

QC Approved by: PJ Lin

Date: Feb. 14, 2020

QA Approved by: Vicky L

Date: Feb. 15, 2020