

PLANT NAME	VEDAN VIETNAM ENTERPRISE CORP., LTD
ADDRESS	National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District, Dong Nai Province, Vietnam
PRODUCT NAME or PRODUCT GROUP:	MONOSODIUM GLUTAMATE

Reference: 714 / 21 / CN -VDN

Preventive Control Chart

PC or CCP	Ingredient or Process Step	Hazard Type	Limit	Monitoring				Preventative Measure	Records
				What	How	Frequency	Who		
PC	Raw Material Externally Sourced: Molasses	C	Lead: Max 1 mg/kg	Limit of these hazards in the raw material	Analysis	Once/year	Acceptance department. ISO/IEC 17025 . accredited external laboratory	Supply Chain Control and Verification by Sampling and testing	PJ500021
			Arsenic: Max 1 mg/kg						
			Cadmium: Max 1 mg/kg. Mercury: Max 0.05 mg/kg.						
			Pesticide (Organochlorine and Organophosphate) residues: Not detected.						
			Radioactive materials: Not detected	Limit of the hazards in the raw material	Supplier commitment	Each year	Acceptance department	Supply Chain Control	PJ500021
	Raw Material Internally Sourced: Syrup	C	Heavy metal as Lead: Max 10 mg/l.	Limit of these hazards in the raw material	Analysis	Once/month	Maltose syrup plant. Vedan Central lab	Process Control	PJ500021
			Arsenic as As ₂ O ₃ : Max 1 mg/l.						

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			Lead: Max 1 mg/l	Limit of these hazards in the raw material	Analysis	Once/month	Maltose syrup plant. Vedan Central lab		
						Once/year	Maltose syrup plant. ISO/IEC 17025 accredited external laboratory		
			Pesticide (Organochlorine and Organophosphate) residues: Not detected. Aflatoxin B1, B2, G1, G2: < 10ppb	Limit of these hazards in the raw material	Analysis	Once/year	Maltose syrup plant. ISO/IEC 17025 . accredited external laboratory		
PC	Raw Material Internally Sourced: NaOH	C	Lead: Max 2 mg/kg	Limit of the hazards in the raw material	Analysis	Once/week	Chlor-Alkali plant. Vedan central lab.	Process Control	PJ500021 PL100002
			Mercury: Max 0.1 mg/kg.			Once/year	Chlor-Alkali plant. External party		
	Raw Material Internally Sourced: Hot steam	C	Chemical residue: Not detected	Residue of chemical in the raw material	Control by SOP	Everyday	Operator	Control by SOP	PK103004

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	Raw Material Internally Sourced: Treated water, Condensed water	C	Chemical residue: Not detected	Residue of chemical in the raw material	Control by SOP	Everyday	Operator	Control by SOP	PJ100003
	Raw Material Externally Sourced: Packaging materials	B	Harmful microorganism: Not contaminated	Harmful microorganism contaminated	Control by SSOP	Based on each areas, the frequency may: once/week, or once/month	Operator	Control by SSOP	PJ400017
		P	Foreign matters: Not detected	Foreign matters contaminated	Control by SOP	Each lot	Acceptance department. Operator.	Supply Chain Control. Control by SOP.	PJ400002
		C	Migration substances: Not detected	Migration substances in packaging	Control supplier test report	Once/year	Acceptance department.	Supply Chain Control	PJ400016
	Bleaching, Filtration	C	Heavy metal as Pb: Max 10mg/kg	Limit of the hazards in activated carbon, and filter aids	Analysis	Each lot	Vedan central lab	Sampling and testing	PJ500021
			Arsenic as As ₂ O ₃ : Max 1 mg/kg						
			Lead: Max 2 mg/kg						

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	Packing	P	Foreign matters: Not contaminated	Foreign matters contaminated	Control by SOP	Every 2 hours	Operator	Control by SOP	PJ400004
		A	Allergens: Not contaminated	Allergens contaminated	Control by SOP	Before production	Operator	Control by SOP	PJ400031
CCP1	Filtration (Foreign matter in MSG solution)	P	Opening dimension of the cloth filter is max 10 micron. No damage of the filter	- Specification of the cloth filter. - Status of the filter.	Visual check	- Checking the status of the filter once/2 days. - Checking the specification of the filter before periodically replacing it.	Operator of the crystallization stage	1. Replacing the damaged filter with the new once; 2. Checking the filtered MSG solution. If the number of spots in filter paper do not meet the specification, then semi-product related to the MSG solution filtrated by the damaged filter is segregated and recycled. 3. Reworking	J303028 J303067 J500136 D200036 D200013
			Difference of the pressure between inlet and outlet flow	Filtrated pressure	Checking the pressure gauss	Every hour	Operator at the crystallization stage		

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			of the filter is less than 2.4 kgf/cm ² , wherein outlet pressure is more than 0.6 kgf/cm ²		Observing the used filter paper for confirmation of foreign matter control at filter stage	Every shift (checking the number of spots on the filter paper for every 3 liters sample)	QC staff	non-conforming product after tested according to the document "Requirements of handling non-conforming products - PJ500017"; 4. Investigating the causes and taking the corrective actions.	
CCP1	Filtration (Foreign matter in MSG solution)	P	Spot / 3l PS solution: Max 20 (in which foreign matters larger than 500 mm are not more than 1, hazardous foreign matters: plastic particles, hair, insects, wood, metal not allowed)	Spot/3l	Observation on filter paper	Every shift	QC staff	1. Replacing the damaged filter with the new once; 2. Checking the filtered MSG solution. If the number of spots in filter paper do not meet the specification, then semi-product related to the MSG solution filtrated by the damaged filter is segregated and	J303028 J303067 J500136 D200036 D200013

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								recycled. 3. Reworking non-conforming product after tested according to the document "Requirements of handling non-conforming products - PJ500017"; 4. Investigating the causes and taking the corrective actions.	
CCP2	Bacteria and microbial pathogen, yeast and mold, coliform	B	-Temperature of hot air for drying: Min 110 °C; - The quantitative device should rotate max 7 rpm.	Inlet drying temperature (temperature of hot air)	Viewing the temperature displayed	Every hour	Operator of the dryer		
				The number of rotation (rpm) of the quantitative device	Observing the rotation indication of the quantitative	Every hour	Operator of the dryer		

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					device				
				Moisture of MSG after dried Max 0.22%	Analyzing	Every shift at least	QC staff		
OPRP I	Magnet (Metal foreign matter)	P	N/A	Magnetic strength of magnet system (min 4000 gauss)	Measuring with testing machine	Every month	Technician	Replacing the old magnet (failed) with the new one.	K301020 J303033 J500136
			N/A	Checking the surface of magnet	Cleaning the surface of magnet	Every shift at least	-Operation: Operator at MSG Refinery Plant. - Supervision: QC staff.	Re-cleaning the surface of magnet if it is dirty	D200036 D200013

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CCP3	Packing (Foreign matter and Microbiological hazard)	P	Sealing temperature range: 180°C ± 5°C	Supervising the sealing temperature	Visual check	Every hour	Operator of heat-sealing machine	1. Segregating and recycling the non-conforming products. 2. Investigating the causes and taking the corrective actions.	J400024 J400071 J400067 J400030 J400053 D200013 K301023
				Supervising the sealing line status	Checking the sealing status of bag mouth by hand	Every shift at least	Operator at MSG packing plant		
CCP4	Metal detection (Metal foreign matter)	P	Detectable limit Fe: Ø2.0mm SUS: Ø3.5mm	- Testing the sensitivity of metal detector; - Operation condition of metal detector.	Use of standard testing samples	3 times/day	Operator	1. Fixing metal detector (damaged / giving false alarms); 2. Segregating all finished products within 2 shifts including the previous shift and the current one, and then passing them through fixed metal detector for verification of metal	D200013 D200036 J400083 J400045 J400106

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								foreign matter control; 3. Segregating, reworking non-conforming product bags in accordance with document "Requirements for handling non-conforming products - PJ500017"; 4. Investigating the origin of foreign matter and taking corrective action.	

PC = Preventative Control
CCP = Critical Control Point

Hazard Classifications

- B = Biological hazards including bacteria, viruses, parasites, and environmental pathogens
- C = Chemical (including radiological) hazards, food allergens, substances such as pesticides and drug residues, natural toxins, decomposition, and unapproved food or color additives
- P = Physical hazards include potentially harmful extraneous matter that may cause choking, injury or other adverse health effects

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A = Allergens - Allergens must be included even if your product doesn't contain allergens, the receiving step must prevent external source of allergens from entering facility
I = Intentional contamination -either coming in with an ingredient or being contaminated at a facility (may be documented in a separate Site Food Defense Plan)
E = Economic fraud - that could cause a food safety issue, such as decomposed material in which someone had added color, bleach etc. to mask the spoilage.



CHAO WEN VIET NAM
Signature of Preventative Controls Qualified Individual

October 21, 2021
Date

Reference for Template – Participant Manual to Preventative Controls for Human Food published by the Food Safety Preventative Controls Alliance

Guidance: known or foreseeable hazards that should be addressed in the table include; Biological, Chemical, Physical, Radiological, Natural Toxins, Pesticides, Drug Residues, Decomposition Parasites, Allergens, Unapproved Food & Color Additives, Natural or Unintentionally Introduced Hazards

Also, include hazards that may be intentionally introduced; including acts of terrorism

See Food Safety Modernization Act for more information. <http://www.fda.gov/Food/FoodSafety/FSMA/ucm247548.htm>

FSMA section 103 applies