

Company Information

Company name			
Street Address			
City/State		Country	
Contact name		Contact phone	
Contact email		Company website	
Botanical material	<describe addressed="" botanical="" by="" form="" material="" of="" operation="" scope="" the="" this=""></describe>		
operation			

This form is for use in conjunction with <u>Section 7 Post-Harvest Handling</u>. Supporting information for specific elements can be attached to this form.

Post-harvest activities are critical to ensuring the botanical material meets appropriate quality specifications. Temporary storage, sorting and inspection, washing and cleaning, and dehydration are steps commonly applied to the harvested material; these require proper attention in order to prevent degradation and contamination.

This section recommends basic practices to be used on farms of all types; it does not include any specialized requirements established in 21 CFR 112 for covered produce farms.

In most cases, these activities when applied to food crops on a farm are regulated by FDA as farm activities, rather than food processing activities; however, in some cases FDA may consider certain routine farm activities to be food processing subject to food GMPs.

For certain materials, additional steps are required to separate the target plant part. Many harvested materials, especially roots, need to be washed after harvest to remove dirt and soil. Cleaning is also needed to remove any foreign matter that may have been inadvertently mixed in with the harvest.

Many of the plants that are grown or collected for use in food must be properly dried prior to use, and drying of plant materials is often performed by the same individuals and companies that harvest the plants. Drying conditions can either preserve or degrade naturally occurring botanical constituents and can greatly affect the quality of the material. Insufficient drying can result in microbial or mold growth, while either insufficient or excessive drying can result in degradation of organoleptic characteristics and botanical constituents. Adherence to proper dehydration conditions is therefore essential when drying is performed.

PH7 Post-Harvest Handling		Assessment ¹				
Element	Description	N/A	Meet	Partial	Deficient	
PH7.1 Han	dling immediately after harvest					
PH7.1 ii)	Freshly harvested botanicals are handled to avoid compaction.					
Comments						
PH7.1 iii)	Harvested material is protected from contact with birds, rodents, insects, and other					
	animals, as well as dirt, dung, smoke, and exhaust.					
Comments	:					
PH7.1 iv)	The harvested material is protected from exposure to the elements as appropriate.					
Comments						
PH7.1 v)	The transit time from the point of harvest to the location used for consolidation and					
	cleaning is minimized.					
Comments						
PH7.1 vi)	Harvested materials brought from diverse locations or collectors to one location for					
	consolidation and cleaning are examined to determine whether the material appears to					
	be generally uniform and acceptable.					
Comments		•				
PH7.1 vii)	Multiple harvest lots are consolidated together are assigned a new lot number and					
	records of the consolidation are maintained.					
Comments						
PH7.1 viii)	Both the temperature and moisture of the harvested material are controlled throughout					
	post-harvest handling as appropriate to prevent degradation.					
Comments						
PH7.2 Sepa	rating the desired plant part					
PH7.2 i-ii)	Any separation of plant parts is performed in accordance with specifications for the					
	botanical material.					
Comments						
PH7.3 Was	hing and cleaning					
PH7.3 iii),	Washing of the botanical material is performed to remove dirt, soil, etc.					
iv.1-4)						
Comments	· •		•	•	•	
PH7.3	Either before or after washing, the botanical material is inspected for all types of visible					
iv.5)	foreign matter and sub-standard material, which is removed to an acceptable level.					
Comments	· · · · · · · · · · · · · · · · · · ·		•	•	•	
PH7.3 v)	Records are kept of the washing and cleaning processes.					

PH7 Post-Harvest Handling		Assessment ¹				
Element	Description	N/A	Meet	Partial	Deficient	
Comments						
PH7.4 Deh	ydration					
PH7.4	Dehydration is conducted as quickly as possible after the harvested crop is ready for					
iv.1)	drying.					
Comments						
PH7.4	Dehydration processes take into consideration whether exposure to light is appropriate.					
iv.2)						
Comments						
PH7.4	Temperatures are controlled at a level that is appropriate for the specific crop.					
iv.3)						
Comments	•	•		•	•	
PH7.4	Botanical materials that are large or that have a high water content are sliced, chopped,					
iv.4)	or split into relatively uniform pieces to ensure they dry quickly, thoroughly, and					
	consistently.					
Comments	•	•		•	•	
PH7.4 v.1)	Outdoor drying operations are designed with sufficient covering over the dehydrating					
	botanical material (e.g., a net, tarp or roof) to protect against contamination from birds					
	and other flying animals.					
Comments						
PH7.4 v.2)	Indoor drying operations are designed to ensure that there is sufficient ventilation for					
	airborne moisture to escape.					
Comments						
PH7.4 v.3)	Adequate air circulation is provided throughout the drying area.					
Comments						
PH7.4 v.4)	Food grade surfaces are used for dehydration processes.					
Comments		•		•	•	
PH7.4 v.6)	Adequate ventilation of the heating equipment is provided.					
Comments			•		•	
PH7.4 vi)	Mechanical drying equipment, such as belt, drum, rotary, or oven-tray dryers, is used in					
	accordance with manufacturer instructions and established operating procedures to					
	ensure that quality of the botanical material is maintained.					
Comments			•	•	•	

PH7 Post-Harvest Handling			Assessment ¹				
Element	Description	N/A	Meet	Partial	Deficient		
PH7.4 vii)	The moisture content of the botanical material after drying is tested to ensure						
	conformance to any established specifications.						
Comments	:						
PH7.4	Records are kept and maintained of the dehydration procedures and the drying						
viii.1-3)	performed on botanical materials.						
Comments	:						
PH7.4	A retention sample is kept of each lot of dehydrated material.						
ix.1-3)							
Comments							
¹ Assessme	nts are used to indicate the degree of compliance or adherence to the specific element	•					
N/A = This	element is not applicable to the operation						
Meet = Ful	y compliant or adherent to the element						
Partial = Gr	eater than 50% compliant to the element						
Deficient =	Less than 50% or no compliance to the element						

I attest that all the information contained in this form is correct to the best of my knowledge.

Signature:_____

Date:_____