

Spinach - Proposed inspection method pack

Proposed order inspection plan | Spinach | As of 2026-10-16

Proposed order inspection methods. Agree the SKU, sample state, sampling plan and acceptance criteria with GreenLand and the processor before use. Source standards retain their stated scope.

This is a proposed inspection plan, not a certificate, completed test or lot result. No sample size, AQL or numeric limit is created by this document.

Leaf and stem proportions

Method status: proposed-contract-method. Proposed for agreement on an order; not a universal standard.

Definition

Leaf blade, tender petiole and tough fibrous stem are mutually exclusive spinach fractions.

Sample state

As received frozen chopped leaves or portion blocks; separate weighed covered-thaw aliquot for fractions/yield.

Sampling approach

Draw cartons across run and lots; examine frozen shape first, then thaw weighed aliquots by a fixed covered protocol. Set carton count, aliquot mass and acceptance number in the signed buyer plan; none is assumed here.

Inspection steps

Thaw only enough to separate a known net mass under a specified covered chilled method; classify by reference anatomy/photos.

Calculation or reproducible observation

mass of leaf / separated plant mass x100; mass of tender petiole / same denominator; mass of fibrous stem / same denominator; fractions sum to 100%.

Proposed control response

Adjust harvest cut height and stem trimming; compare incoming versus final fractions.

Evidence to retain

Record lot/pack/harvest identity, sample weight and count, method revision, equipment calibration where used, photographs of each class, raw tally, operator/date and any rework/retest. Retain Harvest cut-height, leaf/stem trim, chopper blade, portion-mould and blanch/cooling records.

Release or disposition

Approve cut style against buyer-specific fractions; regrade if excess fibrous stem.

Buyer consequence

A high stem fraction changes sauce color and sieve residue.

Source boundary

Operational calculation proposed for a buyer contract. Cited standard or guide informs definitions/scope only; no universal numeric tolerance or GreenLand capability is claimed.

Applicability and use boundary

For this proposed order method, we would confirm the SKU, sample condition, signed acceptance basis and factory control with the actual processor and buyer before use. This card is not an inspected-lot result or a statement of installed GreenLand capability.

Source references

GL-SP: GreenLand current chopped spinach import/specification guide. Scope: URL:
<https://www.greenland-food.com/info/frozen-spinach-import-specification-supply-103704049.html>

Long fibre

Method status: proposed-contract-method. Proposed for agreement on an order; not a universal standard.

Definition

Long, rigid stem strand is distinguished from soft leaf vein by its stem origin and bend response.

Sample state

As received frozen chopped leaves or portion blocks; separate weighed covered-thaw aliquot for fractions/yield.

Sampling approach

Draw cartons across run and lots; examine frozen shape first, then thaw weighed aliquots by a fixed covered protocol. Set carton count, aliquot mass and acceptance number in the signed buyer plan; none is assumed here.

Inspection steps

Unfold a fixed thawed mass of chopped spinach on a tray; pull out strands and document length and bend test.

Calculation or reproducible observation

count of strands longer than agreed mm per kg net sample, plus their combined mass / net sample mass x100; record soft veins separately.

Proposed control response

Adjust chopping knife, pretrim and screen; trace long stems to harvest lot.

Evidence to retain

Record lot/pack/harvest identity, sample weight and count, method revision, equipment calibration where used, photographs of each class, raw tally, operator/date and any rework/retest. Retain Harvest cut-height, leaf/stem trim, chopper blade, portion-mould and blanch/cooling records.

Release or disposition

Hold if contracted long-fiber count fails; recut/rescreen and repeat after buyer agreement.

Buyer consequence

Long fibers wrap mixers and remain visible in filling.

Source boundary

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Applicability and use boundary

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Portion form

Method status: proposed-contract-method. Proposed for agreement on an order; not a universal standard.

Definition

Portion blocks vary in frozen mass, footprint and compaction even if carton net weight is right.

Sample state

As received frozen chopped leaves or portion blocks; separate weighed covered-thaw aliquot for fractions/yield.

Sampling approach

Draw cartons across run and lots; examine frozen shape first, then thaw weighed aliquots by a fixed covered protocol. Set carton count, aliquot mass and acceptance number in the signed buyer plan; none is assumed here.

Inspection steps

Weigh each frozen block and measure three dimensions; use a fixed press/disintegration test only if buyer equipment requires it.

Calculation or reproducible observation

Report individual block mass g distribution and off-target blocks / tested blocks x100; dimensions in mm; breakup time in buyer-defined heated medium (s).

Proposed control response

Calibrate depositor/mould and freezer feed; separate overweight and underweight blocks.

Evidence to retain

Record lot/pack/harvest identity, sample weight and count, method revision, equipment calibration where used, photographs of each class, raw tally, operator/date and any rework/retest. Retain Harvest cut-height, leaf/stem trim, chopper blade, portion-mould and blanch/cooling records.

Release or disposition

Release by contracted block-mass/fit band and performance reference; do not average away extreme blocks.

Buyer consequence

Irregular blocks disrupt recipe dosing and thaw scheduling.

Source boundary

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Applicability and use boundary

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Cut degree

Method status: proposed-contract-method. Proposed for agreement on an order; not a universal standard.

Definition

Requested chopped leaf length, shreds and fine particles must be distinguished from normal veins.

Sample state

As received frozen chopped leaves or portion blocks; separate weighed covered-thaw aliquot for fractions/yield.

Sampling approach

Draw cartons across run and lots; examine frozen shape first, then thaw weighed aliquots by a fixed covered protocol. Set carton count, aliquot mass and acceptance number in the signed buyer plan; none is assumed here.

Inspection steps

Thaw a fixed mass with minimal manipulation, spread and measure representative leaf pieces; use agreed screen for fines.

Calculation or reproducible observation

mass passing agreed sieve aperture / net thawed plant mass x100; report cut-length median/range in mm and sampling rule.

Proposed control response

Set knife spacing and inspect blade wear; compare start/end of run.

Evidence to retain

Record lot/pack/harvest identity, sample weight and count, method revision, equipment calibration where used, photographs of each class, raw tally, operator/date and any rework/retest. Retain Harvest cut-height, leaf/stem trim, chopper blade, portion-mould and blanch/cooling records.

Release or disposition

Rechop or divert if fines/length profile fails signed recipe specification.

Buyer consequence

Too many fines muddy soup or sauce; oversized pieces block depositors.

Source boundary

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Applicability and use boundary

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Drained yield

Method status: proposed-contract-method. Proposed for agreement on an order; not a universal standard.

Definition

Gravity-drained yield, screen-retained yield and mechanically squeezed yield are different tests.

Sample state

As received frozen chopped leaves or portion blocks; separate weighed covered-thaw aliquot for fractions/yield.

Sampling approach

Draw cartons across run and lots; examine frozen shape first, then thaw weighed aliquots by a fixed covered protocol. Set carton count, aliquot mass and acceptance number in the signed buyer plan; none is assumed here.

Inspection steps

Prepare equal frozen aliquots; thaw covered to agreed endpoint, then run named drain/sieve/squeeze protocols separately.

Calculation or reproducible observation

For each named protocol: retained food mass after step / initial frozen net food mass x100; report free liquid mass and any sieve solids separately.

Proposed control response

Review blanch/cooling, freezing, storage and cut size against reference lot.

Evidence to retain

Record lot/pack/harvest identity, sample weight and count, method revision, equipment calibration where used, photographs of each class, raw tally, operator/date and any rework/retest. Retain Harvest cut-height, leaf/stem trim, chopper blade, portion-mould and blanch/cooling records.

Release or disposition

Use only the buyer-specified protocol and yield band for release; an aggressive squeeze cannot substitute for gravity drain.

Buyer consequence

Usable solids per kg drive recipe cost and water management.

Source boundary

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Applicability and use boundary

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