



PRODUCT SPECIFICATION

Product : GreenGrown-GCS®	Version Number : N00
Description : GreenGrown® Glucosamine HCl, and fermented Chondroitin Sulfate in size "00" N/N vegetarian capsule	Issued On : 09/30/26
Part No. : E-VCG-09 (FG)	Issued By : Solomon Y.
Shelf-life : 3 years	Approved By : Lora X.

INGREDIENT	SPECIFICATION	LABEL CLAIM (mg/Cap)	INPUT (mg/cap)
ACTIVE GreenGrown® Glucosamine HCl (E-GSP-40; USP grade) Fermented Chondroitin Sulfate (M005)	98-102% Glucosamine HCl ≥ 85.5% Chondroitin Sulfate Sodium	500 220	510 260
OTHERS Modified Cellulose (vegetarian capsule) Microcrystalline Cellulose Silicon Dioxide Steric Acid			120-180 mg

DESCRIPTION OF TESTS	SPECIFICATION (Per Capsule)	METHOD
IDENTIFICATION / PHYSICAL Appearance Average Gross Capsule Weight (10 caps) Orthogonal Chemical Identity Individual Weight Variation: Target Filled Powder Weight: Disintegration	Clear capsule (off white filled powder) Within ± 5% of target weight Confirm Glucosamine or Chondroitin (Confirm at least 1 out of 2 actives) Within ± 10% of target weight 910 mg (± 10%) ≤ 30 min	Organoleptic Per MMR USP-HPLC; USP or AOAC-HPLC Per MMR Per MMR USP <2040>
POTENCY Glucosamine HCl Chondroitin Sulfate Sodium	500 mg (100-120%) 220 mg (100-130%)	USP-HPLC (AL001) USP or AOAC-HPLC
MICROBIOLOGICAL Total Plate Count Yeast & Mold Escherichia coli Salmonella	≤ 10,000 cfu/g ≤ 1,000 cfu/g Absent in 10 g Absent in 10 g	USP <2021> USP <2021> USP <2022> USP <2022>

PACKAGING SPECIFICATION:

Bulk capsules; or 60-360 counts (as defined by customers) size "00" N/N vegetarian capsules per white HDPE bottle (corresponding size for different count), screw or flip-open cap, heat-induction inner seal, labeled with rolled unwind-4 color label (provided by customers), imprinted with lot number and expiration date on the bottom of bottle, packed in dozen packs or in master cartons of 12 bottles.

REMARKS:

- Control points tested/verified at Internal Quality Control Lab and/or an FDA Registered lab in accordance with ENI finished product approval and testing protocol (ENI.SOP.H.1).

STORAGE:

Storage in original bottle under a controlled room or cool temperature; low humidity environment; away from light.



PRODUCT SPECIFICATION

Product :	GreenGrown-GCS®	Version Number :	N00
Description :	A proprietary blend of GreenGrown® Glucosamine HCl and fermented Chondroitin Sulfate	Issued On :	09/30/26
Part No. :	E-VGC-08	Issued By :	Solomon Y.
Shelf-life :	3 years	Approved By :	Lora X.
Special Note :	A proprietary blend of GreenGrown® Glucosamine HCl and non animal Chondroitin Sulfate; a joint formula with all active ingredients produced by fermentation (shell-fish free) that is suitable for a vegan diet.		

INGREDIENT	SPECIFICATION	LABEL CLAIM / Input (mg/serving of 770mg)	Input (%)
ACTIVE			
GreenGrown® Glucosamine HCl (E-GGP-38; USP grade)	98-102% Glucosamine HCl	500 / 510	66.20%
Fermented Chondroitin Sulfate (M005)	≥ 85.5% Chondroitin Sulfate Sodium	220 / 260	33.80%

DESCRIPTION OF TESTS	SPECIFICATION (Per Capsule)	METHOD
PHYSICAL/IDENTIFICATION		
Appearance	White to off white fine powder	Organoleptic
Orthogonal Chemical Identity	Confirm HPLC retention time of Glucosamine or Chondroitin sulfate (Confirm at least 1 out of 2 actives)	USP-HPLC; USP-PT or AOAC-HPLC
POTENCY		
Glucosamine HCl	≥ 66%	USP-HPLC (AL001)
Chondroitin Sulfate Sodium	≥ 33.5%	USP or AOAC-HPLC
HEAVY METALS		
Arsenic	≤ 1.0 ppm	USP (ICP-MS)
Cadmium	≤ 0.5 ppm	USP (ICP-MS)
Lead	≤ 0.5 ppm	USP (ICP-MS)
Mercury	≤ 0.1 ppm	USP (ICP-MS)
MICROBIOLOGICAL		
Total Plate Count	≤ 10,000 cfu/g	USP <2021>
Yeast & Mold	≤ 1,000 cfu/g	USP <2021>
Escherichia coli	Absent in 10 g	USP <2022>
Salmonella	Absent in 10 g	USP <2022>

REMARKS:

- Control points tested/verified at Internal Quality Control Lab and/or an FDA Registered lab in accordance with ENI finished product approval and testing protocol (ENI.SOP.H.1).

STORAGE:

Storage in original bottle under a controlled room or cool temperature; low humidity environment; away from light.