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## SPECIFICATION SHEET

**PRODUCT: Coffee Cherry Extract**  
**PRODUCT CODE: CCE, 9050220**  
 Ingredient Contents: 100% Coffee Cherry

### Product Description

A powdered dry extract of the outer coffee cherry skin, pulp and mucilage. CCE is 100% ripened coffee cherries; it contains no excipients, carriers or active agents.

**Manufactured with: 100% Arabica Coffee Cherries (*Coffea arabica*)**

### Specifications

	Specification	Method ID
Appearance	Light Brown Powder	Visual
Assay	> 97.0%	USP <731>
pH	4.80 +/- 0.40	AOAC 973.41 <sup>1</sup>
Solubility	> 98.0%	(2)
Lead	< 0.25 ppm	ICP-MS AOAC 2013.06
Arsenic	< 0.15 ppm	ICP-MS AOAC 2013.06
Cadmium	< 2.5 ppm	ICP-MS AOAC 2013.06
Mercury	< 1.5 ppm	ICP-MS AOAC 2013.06
Heavy Metals	< 20 ppm	ICP-MS AOAC 2013.06
<i>E. coli</i>	negative / 25 g	USP <62>
Total Coliform	< 3 MPN/g	AOAC 996.24, MPN, FDA BAM
<i>Salmonella</i>	negative / 375 g	USP <62>
<i>Pseudomonas aeruginosa</i>	negative / 25 g	USP <62>
<i>Staphylococcus</i>	negative / 25 g	USP <62>
Yeast & Mold	< 100 cfu /g	USP <61>
Aerobic Total Plate Count	< 10 <sup>4</sup> cfu/g	AOAC 990.12, FDA BAM
Density	> 0.40 g/ml	tapped

Meets the microbe requirements of the United States Pharmacopoeia.

(1) AOAC 973.41 pH in Water modified for 0.50 w/w% solution

(2) Internal AFS SOP-04-008, Ref for 0.50 w/w% solution

### Main characteristics

Solubility in water : ~ 1 gram / 200 ml (20°C)

There is no evidence to demonstrate or suggest a hazard when employed at levels that are currently in use.

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**Allergen**

The AFS Coffee Cherry Juice Extract, is **free** from the following known allergens:

Milk	Eggs
Fish	Shellfish / Shrimp
Nuts	Wheat
Soybeans	Lactose

For the full list of free allergens in the AFS coffee cherry extract please refer to AFS CCE Allergen Statement.

Additional Testing Validation Program

Foreign Matter: NMT 15 particles / 250 grams, no metallic particles, no insect parts

Chemical:

**Mycotoxin Screen:**

- Aflatoxin B1: < 2 ppb
- Aflatoxin B2, G1, G2 or sum of aflatoxins: < 5 ppb
- Ochratoxin A or B: < 5 ppb
- Fumonisin: < 100 ppb

**Pesticide Screen:** Comply with the USP34-NF29:561 requirements

**Packing**

Available in 5 or 25 kg fiber or food grade plastic drums with polyethylene bags.

**Storage**

Highly hygroscopic. Store in well-closed containers in a dry place at ambient temperature (15-20°C). Material should be re-tested after storage for two years.

**Sterilization**

Non-contact steam heat in drying operation.

**Applications***Conventional Foods and Beverages*

CCE is a 100% all naturally derived extract derived from the coffee cherry; skin pulp and mucilage. It allows formulators to add a slightly sweet and slightly astringent ingredient for flavoring and food or beverage preservation.

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