



# TECHNICAL DATA

A division of Spectrum Organic Products, Inc

Product Name: **Apple Cider Vinegar, Organic, Unfiltered**

Raw Material: Organic cider stock from organically certified apples

Manufacturing: Fermentation of apple cider stock with *Acetobacter aceti*

Vinegar production from fruit is a two-step process. Organic apple juice first undergoes an alcoholic fermentation, which is followed by an acetous fermentation. The vinegar is left in the natural state, unfiltered, with all of the material in the vinegar fermentation remaining in the product. Free of clarifiers, preservatives, or other additives.

<u>Property</u>	<u>Typical Analysis</u>	<u>Method</u>
Appearance	Visible particulates and sediment	Observation
Organoleptic	Fruity aroma and flavor	Sensory Evaluation
Color	Amber	Observation
Grain	60	AOAC Standard Methods
Acidity %	6%	AOAC Standard Methods
Density @ 20°C	8.45 lbs/gal	AOAC Standard Methods
Residual Alcohol	0.5%	AOAC Standard Methods
Esters (as Ethyl Acetate)	1000 ppm	AOAC Standard Methods
Sulfur (as SO <sub>2</sub> )	350 ppm	AOAC Standard Methods
Copper	1.0 ppm	AOAC Standard Methods
Iron	10.0 ppm	AOAC Standard Methods
Lead	0.1 ppm	AOAC Standard Methods

### Microscopic Examination (10X)

Negative for insect fragments  
Negative for vinegar eels

### Microbiology

FDA BAM 8<sup>th</sup> Ed, 1998

TPC	<200/ml
Yeast & Mold	<10/ml
Colliforms	<10/ml
E. coli	Negative/10ml
Salmonella	Negative/100ml
S. aureus	Negative/10ml

**Packaging and Storage:** Store in a cool dry place (50 to 68 degrees F optimum) away from direct sources of sunlight, heat and oxidizers. Properly stored unopened containers have an expected shelf life of 18 months.

<u>Item Number</u>	<u>Size</u>	<u>Container Description</u>
305180	55 Gal	Plastic drum, approximately 462 lbs net weight.

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