

BIOSECUR[®] Organic Personal Care C160S Liquid

450 Sentry Parkway Blue Bell, PA 19422 www.acme-hardesty.com Tel: 215.591.3610 Fax: 215.591.3620

PRODUCT DATA SHEET

Description	Product Characteristics		
	Specification	Test method	
Carrier used	Certified ORGANIC vegetable glycerin	n/a	
Fruit type	Certified ORGANIC citrus (blend citrus without grapefruit)	n/a	
Fruit part used	Flavedo and albedo layers	n/a	
Active ingredient	Citrus bioflavonoid	HPLC (UV-Vis detection)	

Physical test

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Description	Specification	Test method	
Color	Honey color	Visual	
Appearance	Viscous crystalline liquid	Visual	
Taste	Light acid, light sweet and light	Organoleptic	
Odor	Agreeable (light citrus smell)	Organoleptic	
Boiling Point	226°F - 108°C	Internal method	
Volatility	Non-volatile	Internal method	
Solubility in water/glycerol/ethanol	100% soluble	Internal method	
Density at 25°C	1,11 g/ml to 1,22 g/ml	Pycnometer	
pH	Between 2.0 to 3.5	Internal method	
Batch to batch consistency	Identity test report	HPLC identity	

Chemical test

Description	Specification	Test method	
Pb	< 10ppm	Graphite furnace atomic absorption	
As	< 1ppm Chemical Family	ICP-OES	
Cd	< 1ppm Chemical Family	ICP-OES	
Be	< 1ppm Chemical Family	ICP-OES	
Cr	< 1ppm Chemical Family	ICP-OES	

Microbiological Test

Test method	
USP <61>	
USP <61>	
USP <61>	
USP <62>	
	USP <61> USP <61> USP <61> USP <62> USP <62> USP <62> USP <62>

Inquiries:

Acme-Hardesty Co 450 Sentry Parkway Blue Bell, PA 19422 (800) 223-7054 csc@acme-hardesty.com * Certified Organic Citrus Extract

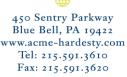
- * 3-Year Shelf-Life from the date of manufacture kept at ambient temperatures unopened.
- ^{*} Not considered genetically modified
- * Not derived from Genetically Modified Organisms (GMO's)
- * Bovine Spongiform Encephalopathy/Transmissible Spongiform Encephalopathy (BSE/TSE) free
- * Gluten-free
- * Material has not been subjected to Irradiation
- * REACh compliant
- * Refer to SDS as a guideline for Safety, Handling and Storage information

The data herein are based on our current knowledge and believed to be reliable. They are intended for use by persons having technical skill and at their own discretion and risk. Due to numerous factors that may affect handling, processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any data given herein may change without prior notice and do not constitute a contractual agreement regarding quality.

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	Paraben Test		
Description	Test method	Limits of detection	
Methylparaben	UPLC-MS-MS	< 0,1 mg/L	
Ethylparaben	UPLC-MS-MS	< 0,1 mg/L	
Propylparaben	UPLC-MS-MS	< 0,1 mg/L	
Isopropylparaben	UPLC-MS-MS	< 0,1 mg/L	
Butylparaben	UPLC-MS-MS	< 0,1 mg/L	
Isobutylparaben	UPLC-MS-MS	< 0,1 mg/L	
These analyses are made	e by: TransBIOTech,		

	Quaternary	Test
Description	Test method	Limits of detection
Benzalkonium Chloride	HPLC-UV-MS	< 0,1 mg/L
Benzethonium Chloride	HPLC-UV-MS	< 0,1 mg/L
Triclosan	HPLC-UV-MS	< 0,1 mg/L

Other Test

Description	Test method	Limits of detection
Phenoxyethanol	GC-MS	< 10 ppm
Synephrine	HPLC-UV-Vis	0,004
Octopamine HCI	HPLC-UV-Vis	0,005
Hordenine	HPLC-UV-Vis	0,005
Formaldehyde	HPLC-EPA 1667	< 2000 ug/kg
These tests are made	by: Chromadex,	·

	Proof of efficien	су	
Description	Test method	ATCC	Control
Escherichia coli	Efficiency disinfectants, SOP No. Val. 600.50	8739	1700
Salmonella enteric	Efficiency disinfectants, SOP No. Val. 600.50	14028	1300
Listeria monocytogenes	Efficiency disinfectants, SOP No. Val. 600.50	19115	1845

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