

# BIOSECUR<sup>®</sup> Organic Oral Care C320C Liquid

## PRODUCT DATA SHEET

Product Characteristics						
Description	Specification	Test method	Result			
Carrier used	Certified ORGANIC vegetable glycerin	n/a	Complies			
Fruit type	Certified ORGANIC citrus fruit (blend citrus without grapefruit)	n/a	Complies			
Fruit part used	Flavedo and albedo layers	n/a	Complies			
Active ingredient	Citrus bioflavonoids, citrus polyphenols	HPLC (UV-Vis detection)	≥4%			

Physical test						
Description	Specification	Test method	Result			
Color	Honey color	Visual	Complies			
Appearance	Viscous crystalline liquid	Visual	Complies			
Taste	Light acid, light sweet and light	Organoleptic	Complies			
Odor	Agreeable (light citrus smell)	Organoleptic	Complies			
Boiling Point	226°F - 108°C	Internal method	Complies			
Volatility	Non-volatile	Internal method	Complies			
Solubility in water/glycerol/Ethanol	100% soluble	Internal method	Complies			
Density at 25°C	1,11 g/ml to 1,22 g/ml	Pycnometer	1,2021 g/ml			
pH	Between 2.0 to 3.5	Internal method	2,47			
Batch to batch consistency	Identity test report	HPLC identity	Complies			

Chemical test					
Description	Specification	Test method	Result		
Pb	< 10ppm	Graphite furnace atomic absorption	Not detected		
As	< 1ppm Chemical Family	ICP-OES	Not detected		
Cd	< 1ppm Chemical Family	ICP-OES	Not detected		
Be	< 1ppm Chemical Family	ICP-OES	Not detected		
Cr	< 1ppm Chemical Family	ICP-OES	Not detected		

Microbiological Test						
Description Test method Result						
Total aerobic bacteria count / gr	USP <61>	< 10				
Total yeast / gr	USP <61>	< 10				
Total mold / gr	USP <61>	< 10				
Escherichia coli	USP <62>	Not detected				
Salmonella sp.	USP <62>	Not detected				
Staphylococcus aureus	USP <62>	Not detected				
Pseudomonas aeruginosa	USP <62>	Not detected				
These tests are made by: Alpharmco Ltd						

#### **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 Result									
Methylparaben	UPLC-MS-MS	< 0,1 mg/L	Not detected						
Ethylparaben	UPLC-MS-MS	< 0,1 mg/L	Not detected						
Propylparaben	UPLC-MS-MS	< 0,1 mg/L	Not detected						
Isopropylparaben	UPLC-MS-MS	< 0,1 mg/L	Not detected						
Butylparaben	UPLC-MS-MS	< 0,1 mg/L	Not detected						
Isobutylparaben	UPLC-MS-MS	< 0,1 mg/L	Not detected						
These analyses are made by: TransBIOTech									

Quaternary Test								
Description Test method Limits of detection Result								
Benzalkonium Chloride	HPLC-UV-MS	< 0,1 mg/L	Not detected					
Benzethonium Chloride HPLC-UV-MS < 0,1 mg/L Not detected								
Triclosan	HPLC-UV-MS	< 0,1 mg/L	Not detected					
These analyses are made by: TransBIOtech								

Other Test					
Description	Test method	Limits of detection	Result		
Phenoxyethanol	GC-MS	< 10 ppm	Not detected		
Synephrine	HPLC-UV-Vis	0,004	Not detected		
Octopamine HCI	HPLC-UV-Vis	0,005	Not detected		
Hordenine	HPLC-UV-Vis	0,005	Not detected		
Formaldehyde	HPLC-EPA 1667	< 2000 ug/kg	Not detected		
These tests are made by: Chromadey					

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Proc	of of efficacy	for this batch at 1	% concentratio	n			
Total microbial count   Description ATCC Contact length: 30 seconds Log reduction							
Description	AICC	Control	Results	Log reduction			
Escherichia coli	8739	3 900	<1	2,59			
Salmonella enterica	14028	2 500	<1	2,40			
Listeria monocytogenes	19115	8 700	<1	2,94			
	These	tests are made by: Alpharm	co Ltd				

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