

PRODUCT SPECIFICATION

Curcu**SOL**-LSME™

Self-Emulsifying Dietary Delivery System for Curcumin & Tetrahydrocurcumin Powder

PRODUCT IDENTIFICATION																																											
Product Name Curcu SOL -LSME™ Product Description Curcumin & THC SNEDDS Powder Product Code VNCURLSME10	Botanical Name <i>Curcuma longa</i> Country of Origin Sri Lanka DOI November 2022																																										
PHYSICAL & ORGANOLEPTIC		NUTRITION FACTS – Serving Size 0.25 gm																																									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">ANALYTE</th> <th style="text-align: left; border-bottom: 1px solid black;">SPECIFICATION</th> </tr> </thead> <tbody> <tr> <td>Appearance</td> <td>Free-Flowing Powder</td> </tr> <tr> <td>Color</td> <td>Tan to Orange</td> </tr> <tr> <td>Aroma & Taste</td> <td>Neutral</td> </tr> </tbody> </table>	ANALYTE	SPECIFICATION	Appearance	Free-Flowing Powder	Color	Tan to Orange	Aroma & Taste	Neutral	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">AMOUNT PER SERVING</th> <th style="text-align: left; border-bottom: 1px solid black;">% DV</th> </tr> </thead> <tbody> <tr> <td>Calories</td> <td>0 kcal 0%</td> </tr> <tr> <td>Total Fat & <i>Trans</i> Fat</td> <td>0 g 0%</td> </tr> <tr> <td>Cholesterol</td> <td>0 mg 0%</td> </tr> <tr> <td>Sodium</td> <td>0 mg 0%</td> </tr> <tr> <td>Total Carbohydrate</td> <td>0 g 0%</td> </tr> <tr> <td>Protein</td> <td>0 g 0%</td> </tr> </tbody> </table>	AMOUNT PER SERVING	% DV	Calories	0 kcal 0%	Total Fat & <i>Trans</i> Fat	0 g 0%	Cholesterol	0 mg 0%	Sodium	0 mg 0%	Total Carbohydrate	0 g 0%	Protein	0 g 0%																				
ANALYTE	SPECIFICATION																																										
Appearance	Free-Flowing Powder																																										
Color	Tan to Orange																																										
Aroma & Taste	Neutral																																										
AMOUNT PER SERVING	% DV																																										
Calories	0 kcal 0%																																										
Total Fat & <i>Trans</i> Fat	0 g 0%																																										
Cholesterol	0 mg 0%																																										
Sodium	0 mg 0%																																										
Total Carbohydrate	0 g 0%																																										
Protein	0 g 0%																																										
ACTIVE ANALYSIS BY HPLC																																											
Tetrahydrocurcumin NLT 3%		Curcumin NLT 7%																																									
TOXICOLOGICAL		MICROBIOLOGICAL																																									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">ANALYTE</th> <th style="text-align: left; border-bottom: 1px solid black;">SPECIFICATION</th> <th style="text-align: left; border-bottom: 1px solid black;">METHOD</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td><3 ppm</td> <td>ICP/MS</td> </tr> <tr> <td>Arsenic</td> <td><3 ppm</td> <td>ICP/MS</td> </tr> <tr> <td>Mercury</td> <td><1 ppm</td> <td>ICP/MS</td> </tr> <tr> <td>Cadmium</td> <td><3 ppm</td> <td>ICP/MS</td> </tr> <tr> <td>Peroxides</td> <td><10 meq/Kg</td> <td>USP <401></td> </tr> <tr> <td>Pesticides†</td> <td><LOD</td> <td>GC-FPD</td> </tr> <tr> <td>Glyphosate</td> <td><0.01 ppm</td> <td>LC/MS/MS</td> </tr> </tbody> </table> <p><i>*Glyphosate/AMPA/Glufoisinate</i> <i>†Pyrethroids, Organochlorine & Organophosphorous Pesticides</i></p>	ANALYTE	SPECIFICATION	METHOD	Lead	<3 ppm	ICP/MS	Arsenic	<3 ppm	ICP/MS	Mercury	<1 ppm	ICP/MS	Cadmium	<3 ppm	ICP/MS	Peroxides	<10 meq/Kg	USP <401>	Pesticides†	<LOD	GC-FPD	Glyphosate	<0.01 ppm	LC/MS/MS	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">ANALYTE</th> <th style="text-align: left; border-bottom: 1px solid black;">SPECIFICATION</th> <th style="text-align: left; border-bottom: 1px solid black;">METHOD</th> </tr> </thead> <tbody> <tr> <td>TAPC*</td> <td><10,000 CFU/g</td> <td>USP <61></td> </tr> <tr> <td>Yeast & Mold</td> <td><500 CFU/g</td> <td>USP <61></td> </tr> <tr> <td>E. coli</td> <td><10 CFU/g</td> <td>AOAC 991.14</td> </tr> <tr> <td>Salmonella</td> <td>Negative/10 g</td> <td>USP <62></td> </tr> <tr> <td>Aflatoxins</td> <td><0.4 ppb</td> <td>IAC-LC-FLD</td> </tr> </tbody> </table> <p style="text-align: center;"><i>* TAPC = Total Aerobic Plate Count (bacteria)</i></p>	ANALYTE	SPECIFICATION	METHOD	TAPC*	<10,000 CFU/g	USP <61>	Yeast & Mold	<500 CFU/g	USP <61>	E. coli	<10 CFU/g	AOAC 991.14	Salmonella	Negative/10 g	USP <62>	Aflatoxins	<0.4 ppb	IAC-LC-FLD
ANALYTE	SPECIFICATION	METHOD																																									
Lead	<3 ppm	ICP/MS																																									
Arsenic	<3 ppm	ICP/MS																																									
Mercury	<1 ppm	ICP/MS																																									
Cadmium	<3 ppm	ICP/MS																																									
Peroxides	<10 meq/Kg	USP <401>																																									
Pesticides†	<LOD	GC-FPD																																									
Glyphosate	<0.01 ppm	LC/MS/MS																																									
ANALYTE	SPECIFICATION	METHOD																																									
TAPC*	<10,000 CFU/g	USP <61>																																									
Yeast & Mold	<500 CFU/g	USP <61>																																									
E. coli	<10 CFU/g	AOAC 991.14																																									
Salmonella	Negative/10 g	USP <62>																																									
Aflatoxins	<0.4 ppb	IAC-LC-FLD																																									
PRODUCT FACTS																																											
Markers Plant Part Excipients Organic Solvents Agricultural Practices WHO GACP Cell Culture Storage & Expiration	Tetrahydrocurcumin & Curcumin Rhizome nonGMO: Sunflower Seed Lecithin, Coconut & Palm Fruit Oils, Cane & Beet Sugar, Rice Hull Fiber Food grade ethanol Conventional Compliant Not derived from or containing cell culture derived products 2 years from DOM in Original Closed Container in Cool, Dry, Dark Place at 59°F – 85°	CA Prop 65 Vegan Extraction Method GMO FALCPA Allergens BSE/TSE Irradiation/ETO Kosher/Halal	Compliant Yes Ethanol No None No/No No/No Yes/Suitable																																								

IMPORTANT – PLEASE READ CAREFULLY

GOODS OFFERED BY VERDANT NATURE ("VN") ARE FOR RESEARCH OR FOR MANUFACTURING ONLY AND ARE NOT INTENDED FOR USE IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL LAWS AND REGULATIONS. COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS REMAINS THE RESPONSIBILITY OF THE USER. VN ASSUMES NO RESPONSIBILITY AND EXPRESSLY DISCLAIMS ANY LIABILITY THAT MAY ARISE FROM THE USE, MISUSE OR APPLICATION OF THE PRODUCT DESCRIBED HEREIN. STATEMENTS MADE HEREIN ARE BASED ON OUR RESEARCH, THE RESEARCH OF OTHERS AND ARE BELIEVED TO BE TRUE AND ACCURATE, HOWEVER NO GUARANTEE OF THEIR ACCURACY IS MADE. BEYOND THE DESCRIPTION OF THE PRODUCT, ALL STATEMENTS AND SUGGESTIONS MADE HEREIN ARE WITHOUT WARRANTY, EXPRESS OR IMPLIED INCLUDING WITHOUT LIMITATION, THE ACCURACY OF THE INFORMATION, THE HAZARDS CONNECTED WITH THE USE OF THE PRODUCT, THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, WARRANTY OF MERCHANTABILITY AND FITNESS FOR USE OF THE PRODUCT FOR A PARTICULAR PURPOSE; AND UPON CONDITION THAT USERS SHALL MAKE THEIR OWN TESTS TO DETERMINE THE SUITABILITY OF SUCH PRODUCT FOR THEIR PARTICULAR PURPOSES. VN'S SOLE OBLIGATION OR LIABILITY FOR ALL CLAIMS, AND THE EXCLUSIVE REMEDY OF BUYER, OR ANY OTHER PARTY, ARE EXPRESSLY LIMITED TO EITHER REPLACEMENT OF PRODUCT FOUND BY THE PARTIES, OR AN AGREED UPON THIRD PARTY, TO BE NONCONFORMING TO THE SPECIFICATIONS; OR REPAYMENT OF THAT PORTION OF THE PURCHASE PRICE PAID FOR PRODUCT SUBJECT TO ANY CLAIM. RECOVERY FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, CONTINGENT OR ANY OTHER TYPE OF DAMAGES, LOSSES OR EXPENSES ARE SPECIFICALLY EXCLUDED, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE OR BREACH OF WARRANTY), STRICT LIABILITY, OR ANY OTHER THEORY OR FORM OF ACTION ARISING OUT OF OR IN CONNECTION WITH THE SALE, DELIVERY, USE, INABILITY TO USE, OR PERFORMANCE OF THE PRODUCT. STATEMENTS CONCERNING THE POSSIBLE USE OF THE PRODUCT ARE NOT INTENDED AS RECOMMENDATIONS TO USE THE PRODUCT IN INFRINGEMENT OF ANY PATENTS OR RIGHTS OF OTHERS. THE USER ASSUMES ALL RISK AND LIABILITY FOR HANDLING, USE AND/OR RESULTS OBTAINED, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER PRODUCTS OR IN THE OPERATION OF ANY PROCESS, AND WHETHER OR NOT IN ACCORDANCE WITH ANY PRIOR OR CONTEMPORANEOUS STATEMENTS OF VN. FAILURE TO GIVE NOTICE OF A CLAIM WITHIN TEN (10) DAYS FROM THE DATE OF DELIVERY OF THE PRODUCT SHALL CONSTITUTE A WAIVER OF ALL CLAIMS. LAWS, COURTS AND DECISIONS OF THE STATE OF WYOMING SHALL GOVERN ALL DEALINGS AND DISPUTES BETWEEN THE PARTIES, WITHOUT REGARD TO APPLICABLE CONFLICT OF LAWS RULES THEREIN OR OF ANY OTHER JURISDICTION.

Curcu**SOL**-LSME(VNCURLSME10) 11.7.22