

# Natural Immunogenics Corporation

## TECHNICAL DATA SHEET BIO-ACTIVE SILVER HYDROSOL 23 PPM RAW MATERIAL FOR FURTHER PROCESSING IN COSMETICS

Regulatory Compliance: International regulatory standards require that specifications be set for material produced in accordance with GMPs and other Regulatory Standards – This document presents the specifications established for Bio-Active Silver Hydrosol 23 PPM used as a raw material for further processing in the Cosmetic industry – additional information are found in the related SDS. Note that the product is Non-GMO and Cruelty Free.

PARAMETERS	PRODUCT SPECIFICATIONS	TEST METHOD
Water purity: RO/DI USP Grade	TOC: <0.5PPM Total Organic Carbons Conductivity: <1.3 micro-siemens per centimeter at 25°C (Inline measurement) Bacteria: ≤100 Colony Forming Unit per mL Endotoxins/Pyrogens: <0.25 Endotoxins Units per mL	SOP LAB-06
Water: % of the total formulation	99.9977%	SOP MFG-74
Silver Purity	99.999% pure	ISO 15338
Silver: % of the total formulation	0.0023%	SOP LAB-65/85
pH	5.5 to 7.5	SOP LAB-02
Conductivity (µS)	22.0 – 32.0 µS/cm	SOP LAB-05
Endotoxin	<0.25 EU /mL (Endotoxin units per milliliter)	LAL assay; FDA ITG-40 & SOP LAB-32
Stability – Shelf Life	12 to 36 months based on packaging material : Bulk packaged in HDPE tanks : 12 months from manufacture date Product packaged in Glass : 36 months from manufacture date	SOP LAB-73
Color	Clear to slightly tinted	Visual
Microbiology: Total Plate Count	<100 cfu / mL	USP <61>
Microbiology: Total Mold & Yeast (Aerobic Plate Count)	<10 cfu / mL	USP <61>
Additional testing performed on an as needed basis or upon client's request by fully accredited third-party laboratories		
Salmonella sp, and E. coli,	Negative / 10 mL	USP <62>
Staphylococcus aureus and Pseudomonas sp	Negative / 10 mL	USP <62>
Burkholderia cepacia	Negative / 10 mL	USP <60>
Carbamates	For benchmarking purposes & to meet clients; requests, these have been correlated to the most stringent standards applicable to drinking water as defined by the WHO, EPA, US FDA 21CFR165.110, Australian & Canadian standards for drinking water	EPA 531.1 or equivalent
Heavy metals		ICP-MS by EPA 200 series; Methods: SW6020 A and SW3010A or equivalent
Organochlorine Pesticides		EPA 508 - Method: SW3510C or equivalent
Organophosphorous Pesticides		EPA 8270- Method SW3510C or equivalent