

CERTIFICATE OF ANALYSIS

Product Description	POLYOXYETHYLENESORBITAN MONOLAURATE, NF GRADE TWEEN® 20
Product Number	P720
Lot Number	13C0720016
Storage Temperature	Room Temperature
Molecular Weight	1227.5
Formula	C ₅₈ H ₁₁₄ O ₂₆
CAS Number	9005-64-5

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Miscible with Water @ 1 mL/L	Passes
pH (Neat)	7.8 – 9.3	8.4
Physical Appearance Color*	2146-60 to 2150-60, 2023-60 to 2027-60, or 2024-40 to 2024-50	2027-60 Light Amber
Texture	Clear, Viscous Liquid	Clear, Viscous Liquid
Insolubles	None	Passes

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

Biological Testing:

Test concentration: 1.0 mL/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is commonly used as a surfactant. It is tested with two or more plant cell lines to ensure there are no phytotoxic impurities that would cause morphological aberrations to plants.	African Violet	Passes
	Syngonium	Passes

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. **PhytoTechnology Laboratories®** shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Recommended Shelf Life Date: March 2021



Gary Seckinger, Ph.D.



PhytoTechnology
Laboratories®
Dedicated to Growth

PhytoTechnology Laboratories®

Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 (1-913-341-5343 *Outside the USA & Canada*)
Fax: 1-888-449-8682 (1-913-341-5442 *Outside the USA & Canada*)
Visit our Web Site at <http://www.phytotechlab.com>



Created on 05 April 2013 DS
Revised on 08 August 2014 DS