

# CERTIFICATE OF ANALYSIS

Product Description POLYOXYETHYLENESORBITAN MONOLAURATE,  
TWEEN® 20  
Product Number P720  
Lot Number HKG0720030  
Storage Temperature Room Temperature  
Molecular Weight 1227.5  
Formula C<sub>58</sub>H<sub>114</sub>O<sub>26</sub>  
CAS Number 9005-64-5

## Physiochemical Specifications:

| TEST                          | SPECIFICATION  | RESULTS               |
|-------------------------------|--|-----------------------|
| Solubility                    | Miscible with Water @ 1 mL/L                                     | Passes                |
| Physical Appearance<br>Color* | 2146-60 to 2150-60, 2023-60 to<br>2027-60, or 2024-40 to 2024-50 | 2024-40 Yellow        |
| Texture                       | Clear, Viscous Liquid  | Clear, Viscous Liquid |
| FTIR                          | Conforms to Structure  | Passes                |
| 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. | Parrot Feather        | Passes  |
|  | Xanthi Tobacco Callus | Passes  |

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

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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.**

Date of Release: 18-May-2026

Recommended Shelf-Life Date: May 2034

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