## CERTIFICATE OF ANALYSIS

Product Description
Product Number
Lot Number
Storage Temperature
Molecular Weight
Formula
CAS Number

Polyoxyethylenesorbitan Monolaurate, NF Grade
Tween 20
P720
14E0720017
Room Temperature
1227.5
$\mathrm{C}_{58} \mathrm{H}_{114} \mathrm{O}_{26}$
9005-64-5

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
| :--- | :--- | :--- |
| Solubility | Miscible with Water @ $1 \mathrm{~mL} / \mathrm{L}$ | Passes |
| pH (Neat) | $7.8-9.3$ | 8.4 |
| Physical Appearance <br> Color* | 2146-60 to 2150-60, 2023-60 to <br> Texture | $2146-60$ Pale Yellow |
| Insoluble | Clear, Viscous Liquid $2024-50$ | Clear, Viscous Liquid |

## Biological Testing:

Test concentration: $1.0 \mathrm{~mL} / \mathrm{L}$

| TEST SPECIFICATION | PLANT CELL LINE | RESULTS |
| :--- | :---: | :---: |
| This product is commonly used as a surfactant. | Dianthus | Passes |
| It is tested with two or more plant cell lines to <br> ensure there are no phytotoxic impurities that <br> would cause morphological aberrations to plants. | Hosta | Passes |
|  |  |  |

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

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Recommended Shelf Life Date: May 2022


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