

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Polysorbate 20  
**INCI Name:** Polysorbate 20  
**CAS Number:** 9005-64-5  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 24 months from production date

| Characteristic                          | Specifications | Laboratory Values | Results |
|---|----------------|-------------------|---------|
| *Color Gardner                          | 3 max          | 1                 | pass    |
| Hydroxyl Value (mg KOH/1g sample)       | 96-108         | 97.72             | pass    |
| Water                                   | 3.0% max       | 2.43              | pass    |
| Saponification Value (mg KOH/1g sample) | 40-50          | 45.30             | pass    |
| IR (NEAT)                               | TMS            | pass              | pass    |

The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

All product characteristic test methods conforms to USP/NF unless noted with asterisk (\*).

This product does not contain bovine, ovine, or caprine materials of any type.

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This report is not to be signed.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.