



## CERTIFICATE OF ANALYSIS

Product : **POLYETHYLENEGLYCOL 4000 S**  
Product number : P0804  
Batch number : 019138  
Manufacturing date : 28-04-2023  
Date of analysis : 11-09-2024  
Expiry date : 30-04-2028

Storage conditions : store at room temperature in a well-closed container

|                      | SPECIFICATION           | RESULT   | UNITS    | REMARKS                 |
|----------------------|-------------------------|----------|----------|-------------------------|
| Appearance           | flakes                  | complies |          | 20 °C                   |
| Solubility           | soluble in water, clear | complies |          | 25% in H <sub>2</sub> O |
| Hazen colour         | 0 – 30                  | 22       |          | 25% in H <sub>2</sub> O |
| pH                   | 5.0 – 7.5               | 6.0      | %        | 5% in H <sub>2</sub> O  |
| Dynamic viscosity    | 110 – 170               | 118.83   | mPa.s    | 50%, 20 °C              |
| Solidification point | 53.0 – 59.0             | 55.2     | °C       |                         |
| Acidity              | 0.00 – 0.10             | 0.04     | ml       | NaOH N/10               |
| Hydroxyl value       | 26.70 – 29.50           | 28.07    | mg KOH/g |                         |
| Reducing substances  | conform                 | complies |          |                         |
| Formaldehyde         | conform                 | complies |          |                         |
| Ethylene oxide       | 0.0 – 1.0               | 0.0      | mg/kg    |                         |
| Dioxane              | 0.0 – 10.0              | 0.0      | mg/kg    |                         |
| Heavy metals         | 0.00 – 5.00             | 0.00     | mg/kg    |                         |
| Water                | 0.000 – 0.750           | 0.504    | % w/w    | Karl Fisher             |
| Sulphated ash        | 0.00 – 0.10             | 0.04     | % w/w    |                         |
| Molecular weight     | 3600.0 – 4400.0         | 3997.1   | g/mol    |                         |

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Approved by:

Date: 10-03-2025

S. Bayat, MSc, pharmacist

Department of Quality Control Duchefa B.V.

The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.

Duchefa Biochemie B.V.

