



**Certificate of Analysis
(Representative Sample Certificate)**

Product Name: Modified HE-Cellulose
INCI Name: Hydroxyethylcellulose
CAS Number: 9004-62-0
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 12 months from production date

| Characteristics | Specification | | Results |
|---------------------------------------------------------|---------------|---------|---------|
| | Minimum | Maximum | |
| Viscosity, cps, 1% water, 3@30, 25oC | 1500 | 2500 | 2480 |
| Ash, % as Na ₂ SO ₄ , Gravimetric | 0.0 | 4.0 | 3.3 |
| Loss on Drying, as packaged, % | 0.0 | 5.0 | 2.7 |
| Film Granularity, Count | 0 | 90 | 48 |
| Aqualon 8.0 pH Hydration | 6 | 25 | 10 |
| pH of viscosity solution | 6.0 | 8.5 | 7.0 |

Certified range data below are based on intermittent testing

pH of a 1% solution in water, 6.0 to 8.5

Heavy metals (as Pb), ppm, < or = 20

Lead, ppm, < or = 10

R types of hydroxyethylcellulose may be used in topical drug products not contacting mucous membranes.

The above data were 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.

This report is not to be signed.

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