

**PHARMCO**  
BY GREENFIELD GLOBAL**KalChem**  
INTERNATIONAL  
Compounding Chemicals You Can Trust**CERTIFICATE OF ANALYSIS**

|                          |                                                                               |
|--------------------------|-------------------------------------------------------------------------------|
| Product Name             | Isopropyl Alcohol 70%                                                         |
| Grade                    | USP/NF Grade                                                                  |
| Catalog #                | 211USP/NF                                                                     |
| Item #                   | 100834                                                                        |
| Batch #                  | 260806-B178576                                                                |
| Date of Manufacture:     | 17 Aug 2026                                                                   |
| Recommended Retest Date: | 16 Aug 2031                                                                   |
| Customer PO #            | 4528494225                                                                    |
| Packaging Type           | Drum Metal 55 Gal                                                             |
| Packaged by:             | Greenfield Global USA Inc., 1101 Isaac Shelby Drive,<br>Shelbyville, KY 40065 |

| TEST                                      | MONO-<br>GRAPH | SPECIFICATION                                         | RESULT |
|-------------------------------------------|----------------|-------------------------------------------------------|--------|
| Acidity                                   | USP            | NMT 1.0 ml of 0.020N NaOH required for neutralization | 0.2 ml |
| Appearance                                | Internal       | Clear                                                 | Pass   |
| Assay (by specific gravity of distillate) | USP            | 0.950 - 0.955 @ 25°C                                  | 0.953  |
| Assay (by volume)                         | USP            | 68.0 - 72.0%                                          | 69.2 % |
| Color APHA                                | Internal       | 5 max                                                 | 0      |
| Identification                            | Internal       | Conforms to IR Spectrum                               | Pass   |
| Limit of Non-Volatile Residue             | USP            | NMT 5 mg                                              | 0 mg   |
| Specific Gravity @ 20oC                   | USP            | 0.872-0.883                                           | 0.880  |
| Water (by volume)                         | Internal       | 28.0 - 32.0%                                          | 30.8 % |

**Certification and Compliance Statements**

This lot of Isopropyl Alcohol 70% complies with all of the current requirements listed in the United States Pharmacopeia and National Formulary Monographs. This lot of isopropyl Alcohol 70% was made with USP grade IPA and purified water. 0.22 micron filtered.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

[www.pharmco.com](http://www.pharmco.com) | [www.greenfield.com](http://www.greenfield.com)



## CERTIFICATE OF ANALYSIS

Greenfield products are for further commercial manufacturing, laboratory use, or research. Greenfield is not registered with the United States Food and Drug Administration (FDA) as a drug manufacturing facility. Greenfield products are not registered with the FDA as active pharmaceutical ingredients in drug manufacturing. Appropriate/legal use of all products are the responsibility of the user and subject to applicable local laws and regulations.

This document was electronically signed by Garrett Lipic on 20 Aug 2026 10:22 AM to indicate Quality Assurance Approval and to release this batch.