



U.S. Pharmacopeia
The Standard of Quality™

USP Certificate

Residual Solvents Class 2 -Mixture B

CAT. NO. 1601292 LOT G0I069

<u>Component</u>	<u>Content (µg/mL) in DMSO</u>	<u>CAS Number</u>
Chloroform	62	67-66-3
1,2-Dimethoxyethane	98	110-71-4
Hexane	236	110-54-3
Methylbutylketone	50	591-78-6
Nitromethane	50	75-52-5
Pyridine	200	110-86-1
Tetralin	100	119-64-2
Trichloroethylene	78	79-01-6

BOX LABEL TEXT

AMPUL LABEL TEXT

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">For use with specified USP-NF Tests. Not for use as a drug. Read MSDS before using.</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> REFERENCE STANDARD </div> <p>RESIDUAL SOLVENTS Class 2 - MIXTURE B 3 x 1.2 mL</p> <p>DANGER! Cancer Suspect Agent, Toxic, Irritant, Combustible</p> <p>Mix thoroughly before opening. Class 2 Mixture B solvents. Eight solvents in DMSO. See the accompanied Certificate for a detailed list of all solvents and concentrations. Protect from light. Dispose of unused portion after opening.</p> <p>CAT. NO. 1601292 USP ROCKVILLE, MD LOT G0I069</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">G0I069</p>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> REFERENCE STANDARD </div> <p>RESIDUAL SOLVENTS Class 2 - MIXTURE B 1.2 mL</p> <p>DANGER! Cancer Suspect Agent, Toxic, Irritant, Combustible</p> <p>Mix thoroughly before opening. Class 2 Mixture B solvents. Eight solvents in DMSO. See the accompanied Certificate for a detailed list of all solvents and concentrations. Protect from light. Dispose of unused portion after opening.</p> <p>CAT. NO. 1601292 USP ROCKVILLE, MD LOT G0I069</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">For use with specified USP-NF Tests. Not for use as a drug. Read MSDS before using.</p>
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USP certifies that the USP Reference Standards Committee, in accordance with their rules and procedures, determined that this USP Reference Standard lot is suitable to assess compliance with the monograph standards for which it is specified. The critical characteristics of this lot are usually determined independently in three or more laboratories, including USP, government, academic, and industrial collaborators.

QA Director



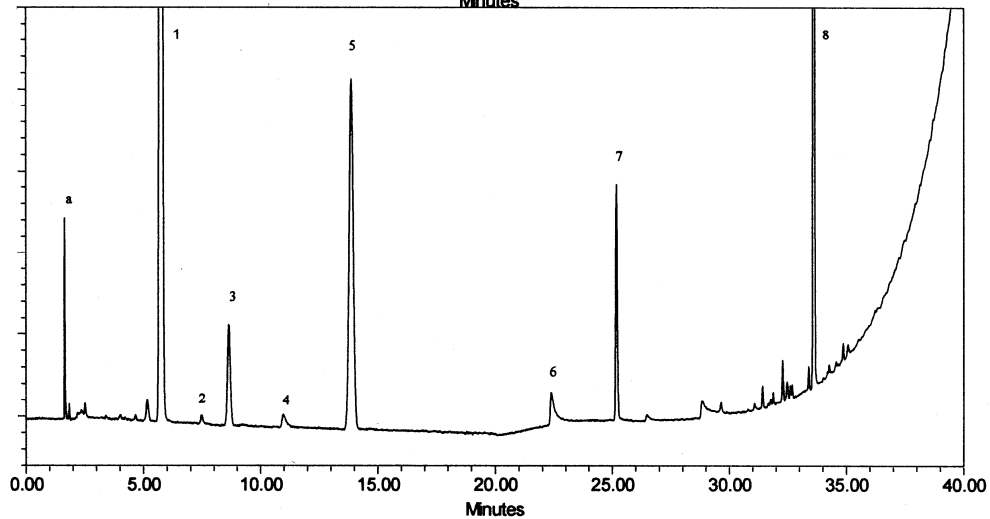
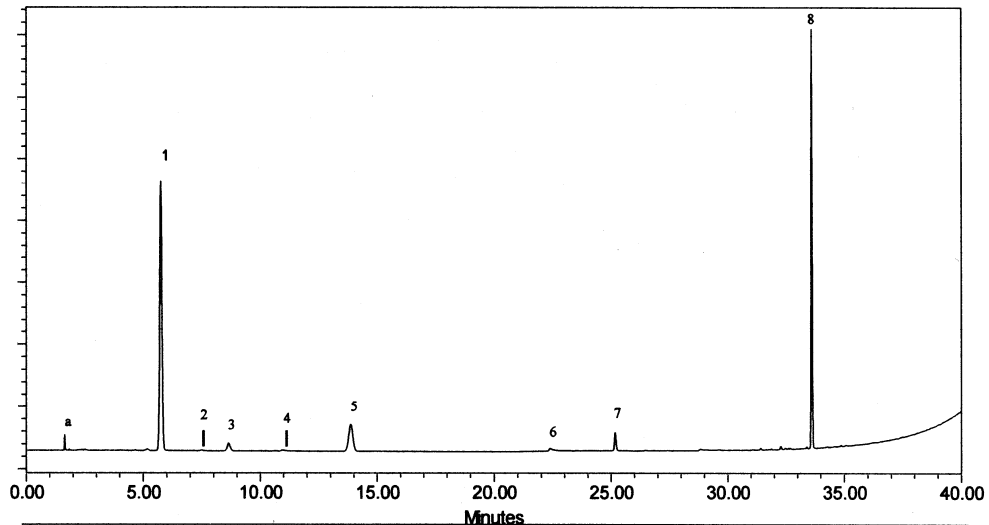
TYPICAL CHROMATOGRAM

USP Residual Solvents Class 2 – Mixture B RS

Lot No. G0I069 (Cat.No. 1601292)

USP Monograph: General Chapter <467> RESIDUAL SOLVENTS, USP 31

Test: Procedure A



- | | | |
|------------------|---------------------------|-----------------------|
| a - artifact | 3 - chloroform | 6 - pyridine |
| 1 - hexane | 4 - 1,2-dimethoxyethane | 7 - methylbutylketone |
| 2 - Nitromethane | 5 - 1,1,2-trichloroethene | 8 - tetralin |

This chromatogram is supplied for information only to assist in identifying peaks and does not constitute any legal requirement.



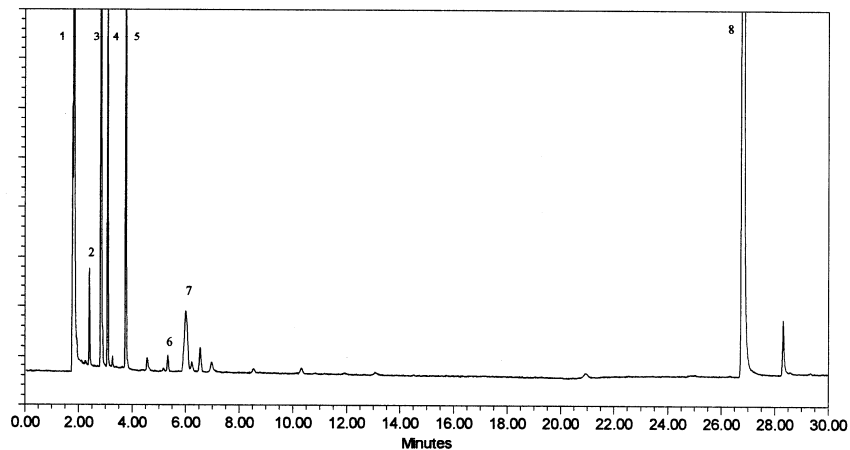
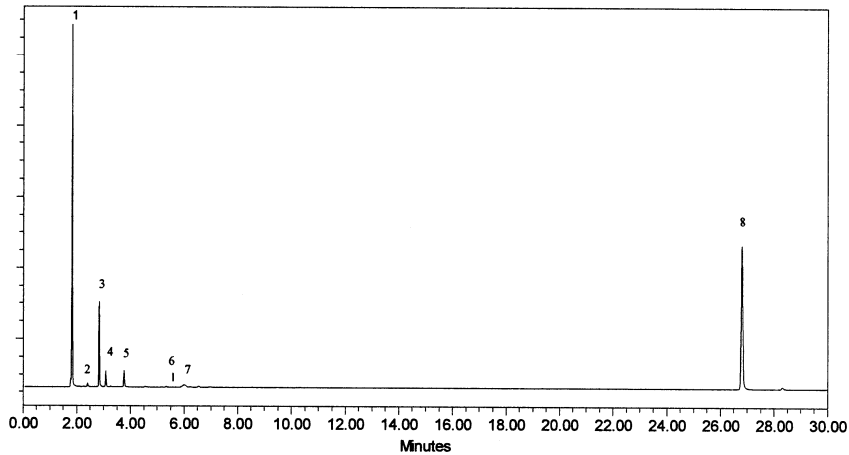
TYPICAL CHROMATOGRAM

USP Residual Solvents Class 2 – Mixture B RS

Lot No. G0I069 (Cat.No. 1601292)

USP Monograph: General Chapter <467> RESIDUAL SOLVENTS, USP 31

Test: Procedure B



- | | | |
|---------------------------|-----------------------|--------------|
| 1 - hexane | 4 - chloroform | 7 - pyridine |
| 2 - 1,2-dimethoxyethane | 5 - methylbutylketone | 8 - tetralin |
| 3 - 1,1,2-trichloroethene | 6 - Nitromethane | |

This chromatogram is supplied for information only to assist in identifying peaks and does not constitute any legal requirement.

Calculation Value

Unless otherwise stated on the Reference Standard label, a value of 100.0% should be used in USP or NF compendial applications for which the use of this Reference Standard is intended. Please refer to the specific Reference Standard label for further information.

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Current lots are identified in the Official USP Reference Standards catalog. In some cases, the previous lot may still be considered official. If so, it is identified in the column marked "Previous Lot/Valid Use Date." Ordinarily, the previous lot is carried in official status for about one year after the current lot enters distribution.

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