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## Certificate of Analysis

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| <b>Product</b>                  | <b>24436 - (+)- Usnic Acid, 95% - [7562-61-0]</b> |
| <b>Batch No</b>                 | <b>7936151</b>                                    |
| <b>Analysis Date</b>            | 01-Sep-2018                                       |
| <b>Date of Manufacture</b>      | September 2018                                    |
| <b>Expiry Date/Re-Test Date</b> | September 2023                                    |
| <b>Molecular Formula</b>        | C18H16O7                                          |
| <b>Molecular Weight</b>         | 344.32                                            |

| Test Parameters                | Standards                                     | Actual Results       |
|--------------------------------|-----------------------------------------------|----------------------|
| Appearance (Colour)            | Yellow                                        | Yellow               |
| Appearance (Form)              | Crystalline compound                          | Crystalline compound |
| Assay                          | min. 95%                                      | 95.4%                |
| Melting Point                  | 194 - 204°C                                   | 204°C                |
| Specific rotation [ $\alpha$ ] | +478° to +498° (C =0.7% , CHCl <sub>3</sub> ) | + 494°               |

FRM/82/11/4/24436 Rev No. 1 Date 01/11/2015

Prepared by **Sonali**

In compliance with the standard specifications of SRL

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