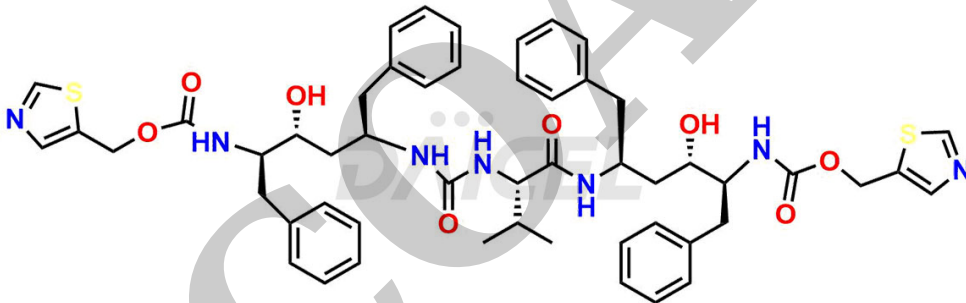




ISO 9001:2015 CERTIFIED      CERTIFICATE OF ANALYSIS

|                       |                                                                                                                                                                                                     |                                                                                      |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Product Name          | Ritonavir EP Impurity S                                                                                                                                                                             |                                                                                      |
| Molecular Formula     | C <sub>52</sub> H <sub>61</sub> N <sub>7</sub> O <sub>8</sub> S <sub>2</sub>                                                                                                                        |  |
| Molecular Weight      | 976.22                                                                                                                                                                                              |                                                                                      |
| Batch Number          | XX-XXXX                                                                                                                                                                                             |                                                                                      |
| Batch Quantity        | XXX                                                                                                                                                                                                 |                                                                                      |
| Date of Manufacturing | DD-MM-YYYY                                                                                                                                                                                          |                                                                                      |
| Date of Analysis      | DD-MM-YYYY                                                                                                                                                                                          |                                                                                      |
| Next Retest Date      | DD-MM-YYYY                                                                                                                                                                                          |                                                                                      |
| Catalogue Number      | DCTI-C-1170                                                                                                                                                                                         |                                                                                      |
| CAS Number            | NA                                                                                                                                                                                                  |                                                                                      |
| COA Number            | PA-XXXX                                                                                                                                                                                             |                                                                                      |
| IUPAC Name            | thiazol-5-ylmethyl ((5R, 6R, 8R, 12S, 15S, 17S, 18S)-5, 8, 15-tribenzyl-6, 17-dihydroxy-12-isopropyl-3, 10, 13-trioxo-19-phenyl-1-(thiazol-5-yl)-2-oxa-4, 9, 11, 14-tetraazanadecan-18-yl)carbamate |                                                                                      |
| Storage and Handling  | 2-8°C                                                                                                                                                                                               |                                                                                      |

| Sl. No | * Test                                        | Result |
|--------|-----------------------------------------------|--------|
|        | Description                                   |        |
| 1.     | Identification i) By IR ii) By NMR iii) By MS | --     |
| 2.     | Chromatographic Purity (% by HPLC)            | --     |

Remarks: \*Test or tests as mentioned above may vary as per the product nature or customer's requirement

| Function      | Compiled by         | Reviewed by         | Reviewed by       | Approved by       |
|---------------|---------------------|---------------------|-------------------|-------------------|
| Name          | xxx                 | xxx                 | xxx               | xxx               |
| Department    | Pharma Standards QC | Pharma Standards QC | Quality Assurance | Quality Assurance |
| Sign and Date |                     |                     |                   |                   |

|                  |                                         |
|------------------|-----------------------------------------|
| Attachments      | IR, NMR, MS spectra, HPLC Chromatogram. |
| Date of Shipment | DD-MMM-YYYY                             |

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