

# Certificate of Analysis

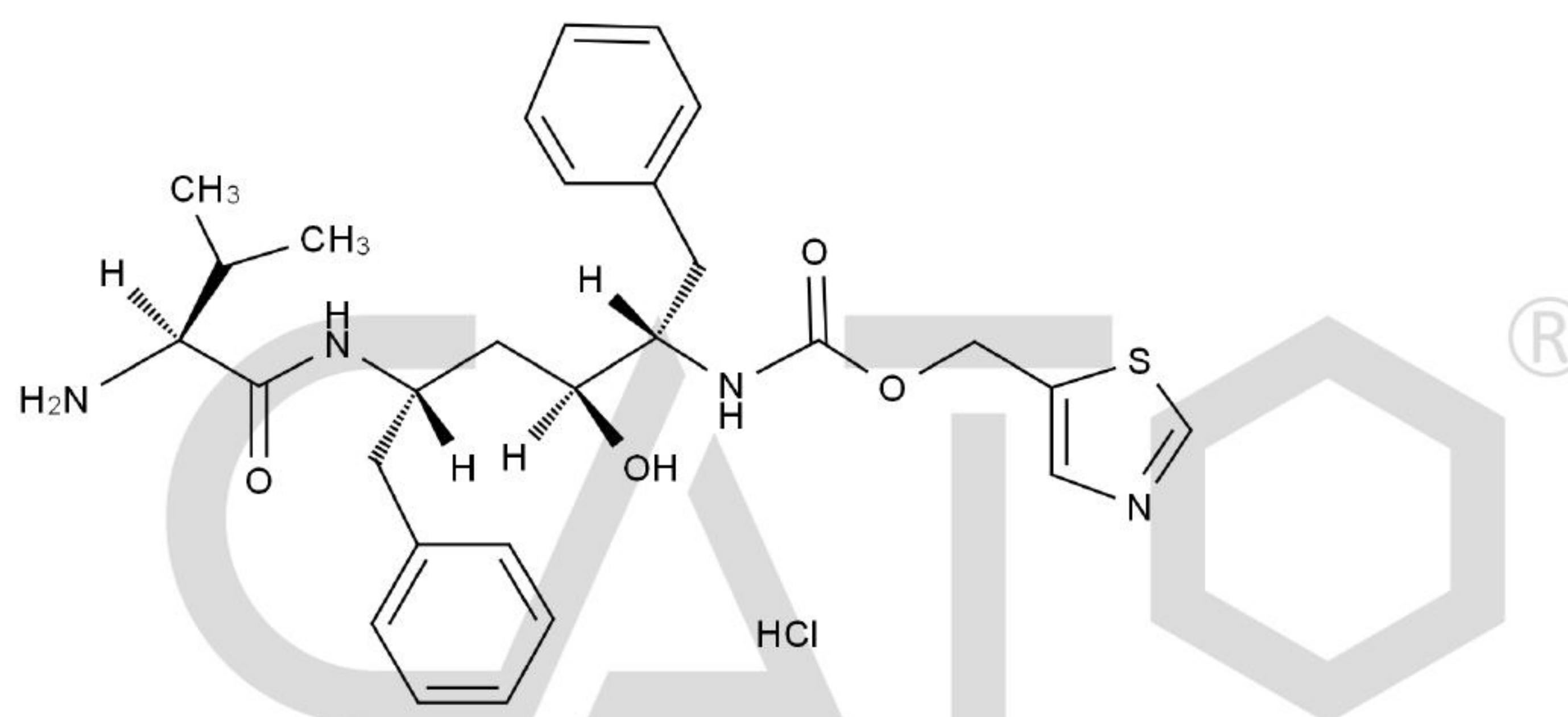
## Reference Material & Standard

|                           |                                                                     |                            |                                           |
|---------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Ritonavir EP Impurity B(HCl)                                        | <b>Catalogue Number:</b>   | C4X-17516                                 |
| <b>Synonyms:</b>          | N/A                                                                 | <b>Lot Number:</b>         | 0721-RD-0002                              |
| <b>CAS Number:</b>        | 165315-97-9                                                         | <b>Expiry Date:</b>        | Oct 28, 2023                              |
| <b>Molecular Formula:</b> | C <sub>28</sub> H <sub>36</sub> N <sub>4</sub> O <sub>4</sub> S HCl | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 524.67 36.46                                                        | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

**Warning:**



**Chemical Structure:**



| Test Items     | Method               | Results     |
|----------------|----------------------|-------------|
| Appearance     | Visual inspection    | White Solid |
| Identification | LCMS&IR&UV&CNMR&HNMR | Confirmed   |
| Purity         | HPLC                 | 96.44%      |
| Loss on Drying | TGA                  | 0.8572%     |
| Assay          |                      | 95.6%       |

## Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) \* Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

**Signature:**

Prepared by:

*Hinlam*

Reviewed by:

*Cady*

Approved by General Manager:

*David*



Date: Oct 31, 2021

Date: Jul 25, 2022

Date: Jul 25, 2022

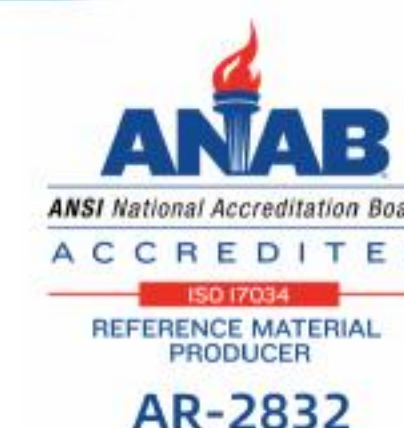
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