

Specification

**Adenosine 5'-Triphosphoric Acid Disodium Salt *BioChemica***

**A1348**

|                              |   |
|------------------------------|---|
| <b>Physical Description:</b> | Solid   |
| <b>Product Code:</b>         | A1348   |
| <b>Product Name:</b>         | Adenosine 5'-Triphosphoric Acid Disodium Salt <i>BioChemica</i>   |
| <b>Specifications:</b>       | Assay (HPLC): min. 98 %<br>Heavy metals (as Pb): max. 0.001 %<br>ADP: max. 1 %<br>AMP: max. 0.5 %<br>Water (K.F.): approx. 10 %   |
| <b>WGK:</b>                  | 1   |
| <b>Storage:</b>              | -20°C   |
| <b>Shipment:</b>             | wet ice   |
| <b>Molecular Formula:</b>    | $C_{10}H_{14}N_5Na_2O_{13}P_3$  |
| <b>M:</b>                    | 551.10 g/mol  |
| <b>CAS:</b>                  | 987-65-5  |
| <b>EINECS:</b>               | 213-579-1   |
| <b>CS:</b>                   | 29349990  |
| <b>Comment</b>               | <p>Stock solutions of ATP are prepared at a concentration of 100 mM in aqueous solutions and stored at -20°C. These solutions have an acidic pH. If ATP is applied at higher concentrations, the pH of the solution has to be increased. The measurement of luciferase activity in extracts from transiently transfected cells requires a final concentration of 5 mM ATP. If the pH value is not adjusted, determination of enzyme activity is impossible. Therefore, a stock solution is prepared by dissolving ATP in water (9/10 of the final volume) and the addition of 2 M Tris base (1/10 of the final volume).</p> |
| <b>Bibliography</b>          | <p>(1) Kanfer, J.N. &amp; Spielvogel, C.H. (1973) <i>Biochim. Biophys. Acta</i> <b>327</b>, 405-411 Inhibition of <math>\beta</math>-N-acetylhexosaminidase by lactones. (2) Janknecht, R. <i>et al.</i> (1995) <i>Oncogene</i> <b>10</b>, 1209-1216 Investigation of the transcription factor SAP1a with luciferase reporter gene constructs.</p>  |
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