

Specification

Polyvinylpyrrolidone (K30) *BioChemica*

A2259

Physical Description:	Solid
Product Code:	A2259
Product Name:	Polyvinylpyrrolidone (K30) <i>BioChemica</i>
Specifications:	<p>Assay (from N): 12.0 - 12.8 %</p> <p>Solubility (10 %; H₂O): clear, colorless to yellowish</p> <p>pH (5 %; H₂O): 3.0 - 5.0</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>Water (K.F.): max. 5 %</p>
WGK:	1
Storage:	RT
M:	44000 - 54000 (g/mol)
CAS:	9003-39-8
CS:	39059990
Comment	<p>The high concentration of polyphenols in many plants is a problem for isolating nucleic acids, as these substances will inhibit enzymes in the following procedures. They can be absorbed by the addition of 1 % polyvinylpyrrolidone K30 (v/v; final concentration) during the tissue homogenization (ref. 1 page 2.3.4). PVP should be prepared fresh as a 20 % stock each time (2). Positively charged nylon membranes used in immunoblots show a high non-specific background. Therefore, these surfaces have to be blocked, in case of the nylon membrane in a very stringent way. Casein (6 % w/v) in combination with 1 % (v/v) polyvinylpyrrolidone (PVP) can be applied. Both substances are dissolved by stirring for 5 minutes in warm (65°C) TTBS buffer.</p>
Bibliography	<p>(1) Ausubel, F.A., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A. & Struhl, K. (eds.) (1995) <i>Current Protocols in Molecular Biology</i>. Page 2.3.4 (Suppl. 27) and Page 10.8.15 (Suppl. 39). Greene Publishing & Wiley-Interscience, New York. (2) John, M.E. (1992) <i>Nucleic Acids Res.</i> 20, 2381 Isolation of RNA and DNA from plants with a high content of polyphenols.</p>

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