


Specification

Guanidine Thiocyanate for molecular biology

A1107

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| Solubility: | 1420 g/L (H ₂ O) |
| Physical Description: | Solid |
| Product Code: | A1107 |
| Product Name: | Guanidine Thiocyanate for molecular biology |
| Specifications: | DNases/RNases/Proteases: not detectable Assay (titr.): min. 99 % pH (1 M): 4.7 - 7.0 Water (K.F.): max. 1.0 % Ammonium: max. 0.1 % Fe: max. 0.0005 % A (1 cm/6 M in water HPLC grade) 280 nm: max. 0.6 300 nm: max. 0.1 |
| Hazard pictograms |  |
| WGK: | 2 |
| Storage: | RT |
| Signal Word: | Attention |
| GHS Symbols: | GHS07 |
| H Phrases: | EUH032 H302+H312+H332 H412 |
| P Phrases: | P273 |

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Specification

Guanidine Thiocyanate for molecular biology

A1107

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|--|------------------------------------|
| | P302+P352 |
| Molecular Formula: | CH ₆ N ₃ SCN |
| M: | 118.16 g/mol |
| CAS: | 593-84-0 |
| EINECS: | 209-812-1 |
| CS: | 29252900 |
| Index Nr.: | 615-004-00-3 |
| Comment Reference (1) describes the original protocol for the guanidine thiocyanate (GuaSCN) / β-mercaptoethanol methode for the isolation of non-degraded RNA from RNase-rich tissues (e. g. pancreas). There are many variations from this method published (e. g. ref. 3, 4).As an alternative to the toxic formaldehyde, guanidine thiocyanate may be applied for Northern blotting (5). A final concentration of 20 mM is sufficient to denature RNA in the agarose gel (5). | |
| Bibliography (1)Chirgwin, J.M. <i>et al.</i> (1979) <i>Biochemistry</i> 18 , 5294-5299227Isolation of biologically active ribonucleic acid from sources enriched in ribonuclease. (2)MacDonald, R.J. <i>et al.</i> (1987) <i>Methods Enzymol.</i> 152 , 219-227Isolation of RNA using guanidinium salts. (3)Lizardi, P.M. (1983) <i>Methods Enzymol.</i> 96 , 24-38Methods of the preparation of messenger RNA. (4)Chomczynski, P. & Sacchi, N. (1987) <i>Anal. Biochem.</i> 162 , 156-159Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction. (5)Goda, S.K. & Minton, N.P. (1995) <i>Nucleic Acids. Res.</i> 23 , 3357-3358A simple procedure for gel electrophoresis and Northern blotting of RNA. | |
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