


Specification

Ruthenium red

A3488

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| Solubility: | soluble (H ₂ O) |
| Physical Description: | Solid |
| Product Code: | A3488 |
| Product Name: | Ruthenium red |
| Specifications: | Assay (titr.): approx. 95 % pH (20°C): 7.0 (H ₂ O) |
| Hazard pictograms |  |
| WGK: | 2 |
| Storage: | RT |
| Signal Word: | Attention |
| GHS Symbols: | GHS07 |
| H Phrases: | H315 H319 H335 |
| P Phrases: | P260 P280 P303+P361+P353 P304+P340 P305+P351+P338 P501 |
| Molecular Formula: | Cl ₆ H ₄₂ N ₁₄ O ₂ Ru ₃ · 4H ₂ O |
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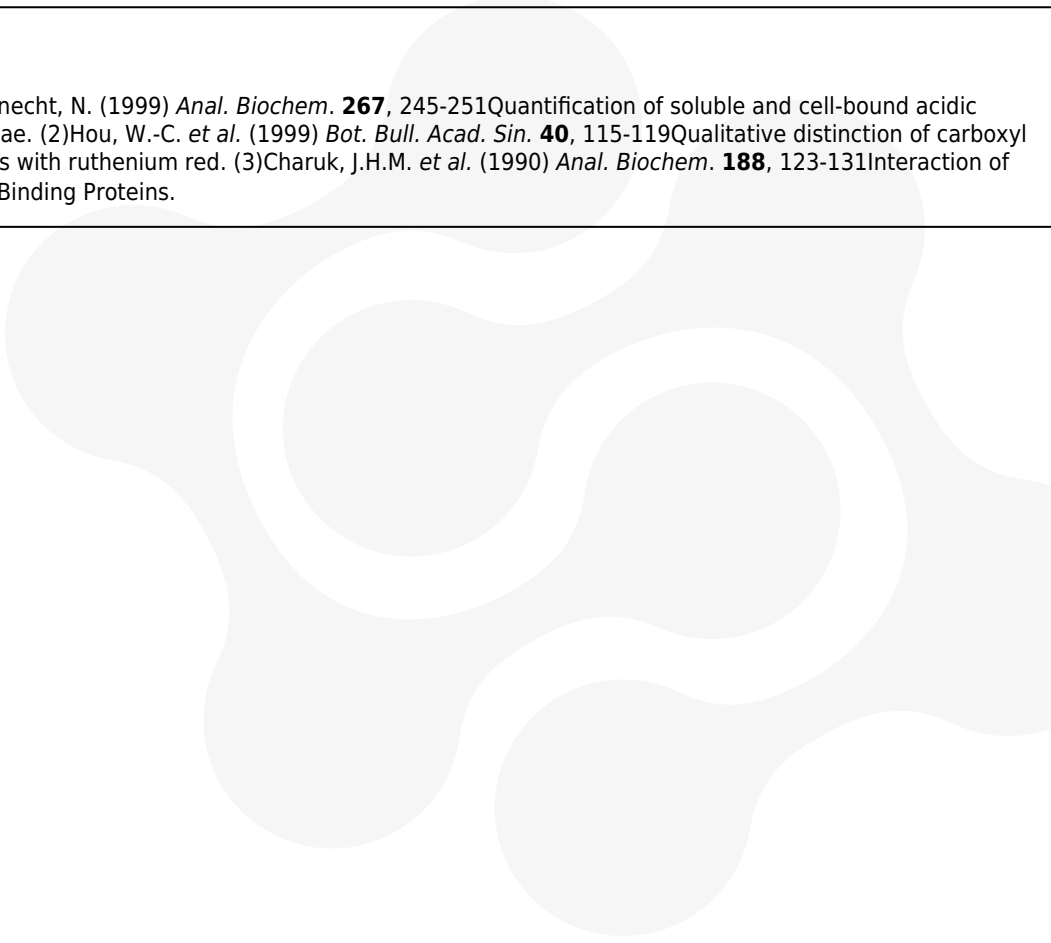
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Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • info.de@itwreagents.com • www.itwreagents.com
 CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode
 DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340

Specification

Ruthenium red

A3488

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| M: | 858.42 g/mol |
| CAS: | 11103-72-3 |
| EINECS: | 308-985-1 |
| CS: | 28439090 |
| Comment Ruthenium red binds selectively to the intramolecular spaces of carboxyl groups of pectin and shows little binding to aginic acid carboxyl groups. The dye binds between the carboxyl oxygen of one galacturonide moiety and a hydryl oxygen of an neighboring galacturonide in the pectate chain. Ruthenium red possesses an absorption maximum at 534 nm. It is watersoluble. | |
| Bibliography (1)Hoffmann, E.M. & Bauknecht, N. (1999) <i>Anal. Biochem.</i> 267 , 245-251Quantification of soluble and cell-bound acidic polysaccharides of red algae. (2)Hou, W.-C. <i>et al.</i> (1999) <i>Bot. Bull. Acad. Sin.</i> 40 , 115-119Qualitative distinction of carboxyl group distinction in pectins with ruthenium red. (3)Charuk, J.H.M. <i>et al.</i> (1990) <i>Anal. Biochem.</i> 188 , 123-131Interaction of Ruthenium Red with Ca ²⁺ -Binding Proteins. | |
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