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| 1. Record Nr.           | UNISA996393509203316  |
| Autore                  | Wilkins John <1614-1672.>   |
| Titolo                  | An essay towards a real character, and a philosophical language<br>[[electronic resource] /] / by John Wilkins .  |
| Pubbl/distr/stampa      | London, : Printed for Sa. Gellibrand, and for John Martyn ..., 1668   |
| Descrizione fisica      | [19], 454, [162] p., [2] leaves of plates : ill   |
| Altri autori (Persone)  | WilkinsJohn <1614-1672.>  |
| Soggetti                | Language and languages<br>Philosophy - Miscellanea<br>Grammar, Comparative and general<br>Language and languages - Philosophy   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | "An alphabetical dictionary, wherein all English words according to their various significations, are either referred to their places in the philosophical tables, or explained by such words as are in those tables" ([162] p. at end) has special t.p. and is entered separately in Wing as W2176 (entry cancelled in Wing 2nd ed.).<br>Folded table inserted between p. 442 and p. 443.<br>Errata: p. [19] at beginning.<br>Advertisements: p. [5]-[9] at end.<br>Reproduction of original in Harvard University Libraries.<br>Marginal notes. |
| Sommario/riassunto      | eebo-0062   |

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| 2. Record Nr.           | UNINA9910811756703321   |
| Titolo                  | Handbook of RNA biochemistry // edited by Roland K. Hartmann [and three others]   |
| Pubbl/distr/stampa      | Weinheim, Germany : , : Wiley-VCH, , 2014<br>©2014  |
| ISBN                    | 3-527-65052-0<br>3-527-65054-7<br>3-527-65055-5   |
| Edizione                | [Second, completely revised and enlarged edition.]  |
| Descrizione fisica      | 1 online resource (1371 p.)   |
| Disciplina              | 572.8/8   |
| Soggetti                | RNA<br>Biochemistry   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Description based upon print version of record.   |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | Cover; Title Page; Copyright; Contents; Preface; List of Contributors; Part I RNA Synthesis and Detection; Chapter 1 Enzymatic RNA Synthesis Using Bacteriophage T7 RNA Polymerase; 1.1 Introduction; 1.2 Description of Method - T7 Transcription In vitro; 1.2.1 Templates; 1.2.1.1 Strategy (i): Insertion into a Plasmid; 1.2.1.2 Strategy (ii): Direct Use of Templates Generated by PCR; 1.2.1.3 Strategy (iii): Annealing of a T7 Promoter DNA Oligonucleotide to a Single-Stranded Template; 1.2.2 Special Demands on the RNA Product 1.2.2.1 Homogeneous 5' and 3' Ends, Small RNAs, Functional Groups at the 5' End 1.2.2.2 Modified Substrates; 1.3 Transcription Protocols; 1.3.1 Transcription with Unmodified Nucleotides; 1.3.2 Transcription with 2' -Fluoro-Modified Nucleotides; 1.3.3 T7 Transcripts with 5' - Cap Structures; 1.3.4 Purification; 1.4 Troubleshooting; 1.4.1 Low or No Product Yield; 1.5 Rapid Preparation of T7 RNA Polymerase; 1.5.1 Required Material; 1.5.1.1 Medium; 1.5.1.2 Buffers and Solutions; 1.5.1.3 Electrophoresis and Chromatography; 1.5.2 Procedure 1.5.2.1 Cell Growth, Induction, and Test for Expression of T7 RNAP1. 5.2.2 Purification of T7 RNAP; 1.5.3 Notes and Troubleshooting; References; Chapter 2 Production of RNAs with Homogeneous 5' - and |

3' -Ends; 2.1 Introduction; 2.2 Description of Approach; 2.2.1 Cis-Cleaving Autocatalytic Ribozyme Cassettes; 2.2.1.1 The 5' -Cassette; 2.2.1.2 The 3' -Cassette; 2.2.1.3 Purification of Released RNA Product and Conversion of End Groups; 2.2.2 Trans-Cleaving Ribozymes for the Generation of Homogeneous 3' Ends; 2.2.3 Further Strategies toward Homogeneous Ends  
2.3 Critical Experimental Steps, Changeable Parameters, Troubleshooting  
2.3.1 Construction of Cis-Cleaving 5'- and 3'-Cassettes; 2.4 PCR Protocols; 2.5 Potential Problems; References; Chapter 3 RNA Ligation; 3.1 General Introduction; 3.1.1 T4 Polynucleotide Ligases; 3.1.2 Reaction Mechanism; 3.1.3 Advantages of T4 DNA Ligase for RNA Ligation; 3.1.4 Chapter Structure; 3.2 RNA Ligation Using T4 DNA Ligase (T4 Dnl); 3.2.1 Overview of the RNA Ligation Method Using the T4 DNA Ligase (T4 Dnl); 3.2.2 Large-Scale Transcription and Purification of RNAs  
3.2.3 Generating Homogeneous Acceptor 3' -Ends for Ligation  
3.2.4 Site-Directed Cleavage with RNase H; 3.2.5 Dephosphorylation and Phosphorylation of RNAs; 3.2.6 RNA Ligation; 3.2.7 Troubleshooting; 3.3 Simultaneous Splint Ligation of Five RNA Fragments to Generate RNAs for FRET Experiments; 3.3.1 Introduction; 3.3.2 Construct Design; 3.3.3 Troubleshooting; 3.3.3.1 Low Overall Ligation Efficiency; 3.3.3.2 Undesired Ligation By-products; 3.3.3.3 RNA Degradation; 3.4 T4 RNA Ligase(s); 3.4.1 Introduction; 3.4.2 Mechanism and Substrate Specificity; 3.4.2.1 Early Studies  
3.4.2.2 Substrate Specificity and Reaction Conditions

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## Sommario/riassunto

The second edition of a highly acclaimed handbook and ready reference. Unmatched in its breadth and quality, around 100 specialists from all over the world share their up-to-date expertise and experiences, including hundreds of protocols, complete with explanations, and hitherto unpublished troubleshooting hints. They cover all modern techniques for the handling, analysis and modification of RNAs and their complexes with proteins. Throughout, they bear the practising bench scientist in mind, providing quick and reliable access to a plethora of solutions for practical questions of RNA research

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