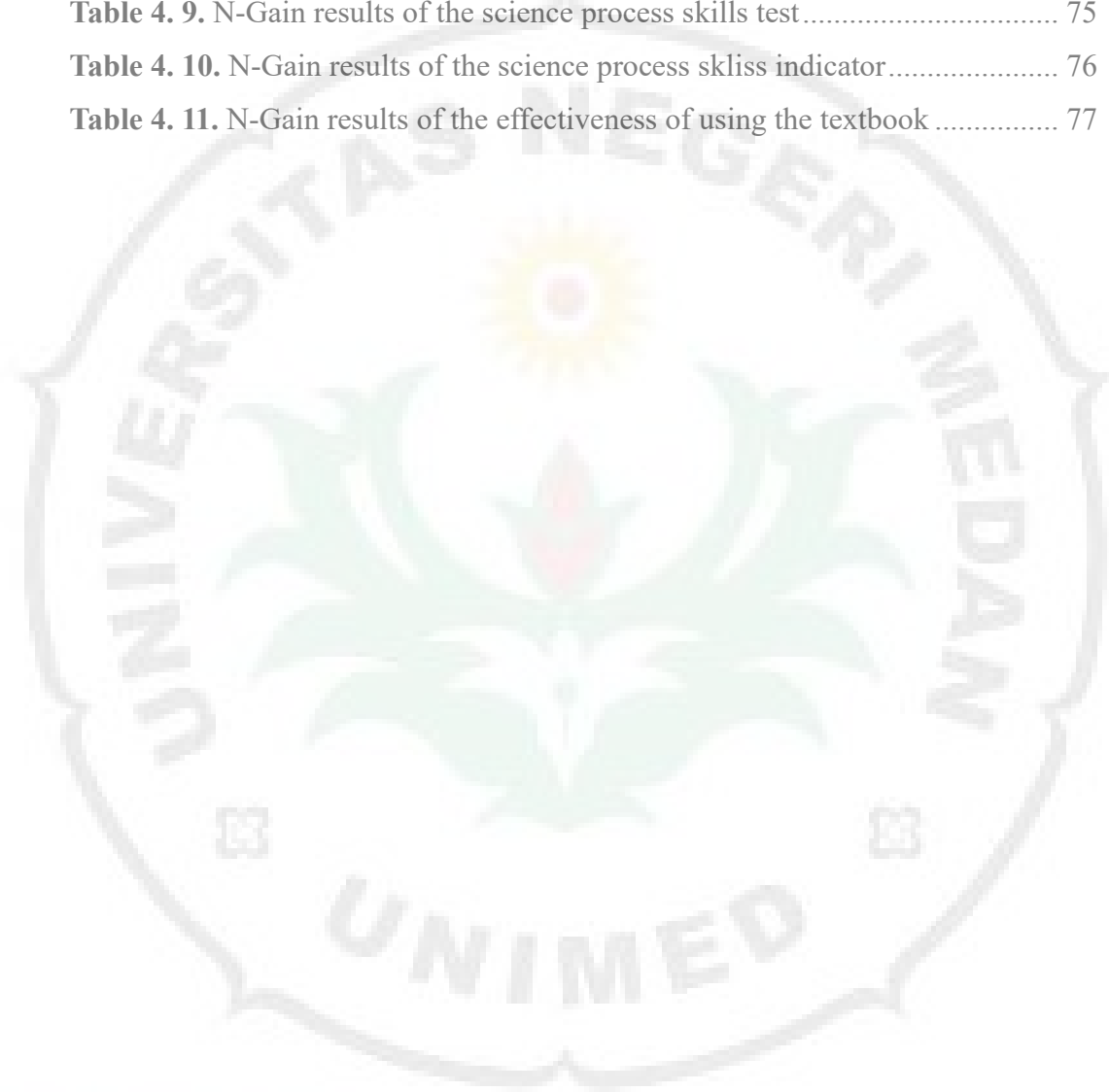


LIST OF TABLES

	<i>Page</i>
Table 2. 1. Table science process skills indicators.....	25
Table 3. 1. Grid of interviews sheets of biology students in Universitas Negeri Medan.....	31
Table 3. 2. Grid of interview sheets of lecturer in tissue culture.....	32
Table 3. 3. Grid of questionnaire sheets analyzing student needs.....	33
Table 3. 4. Grids of validation sheets by topic experts.....	34
Table 3. 5. Grids of validation sheets by design instructional expert.....	35
Table 3. 6. Questionnaire grid table lecturers' assessment of textbooks.....	36
Table 3. 7. Table of questionnaires of student responses to textbooks.....	37
Table 3. 8. Instrument grid table of science process skills test.....	38
Table 3. 9. Answer criteria validation instrument item with likert scale.....	45
Table 3. 10. Teaching book eligibility criteria for topic and design instructional expert instruments.....	46
Table 3. 11. Answer criteria for student questionnaire instrument items on a scale of 1-4.....	47
Table 3. 12. Interpretation of questionnaire answers.....	48
Table 3. 13. Science process skills assessment criteria.....	49
Table 3. 14. Learning outcomes improvement category.....	50
Table 3. 15. Criteria for determining the level of effectiveness of textbooks.....	50
Table 4. 1. Textbook feasibility results based on material experts.....	62
Table 4. 2. Textbook before and after revision based on advice from material experts.....	63
Table 4. 3. Textbook before and after revision based on advice from material experts.....	67
Table 4. 4. Textbook before and after revision based on advice from design instructional experts.....	68
Table 4. 5. Textbook response results by tissue culture lecturers.....	69
Table 4. 6. Individual test results by students.....	70
Table 4. 7. Results of small group trials by students.....	70

Table 4. 8. Results of limited group trials by students	71
Table 4. 9. N-Gain results of the science process skills test.....	75
Table 4. 10. N-Gain results of the science process skliss indicator.....	76
Table 4. 11. N-Gain results of the effectiveness of using the textbook	77



THE
Character Building
UNIVERSITY