

TABLE OF CONTENTS

Table of Contents	i, ii, iii
Plant families	iv
Acknowledgements	v
Preface	vi
PART I. PRINCIPLES OF TETRAZOLIUM TESTING	
1. INTRODUCTION	1
2. NATURE OF THE TZ TEST	1
3. HISTORY	2
4. CLASSIFICATION AND STRUCTURE	3
4.1 Monocotyledon	3
4.1.1 Simple embryonic axis with scutellum and endosperm	3
4.1.2 Elongated, single cotyledon embryo and endosperm	3
4.2 Dicotyledon	3
4.2.1 Low level embryonic differentiation	3
4.2.2 High level embryonic differentiation	4
4.3 Gymnosperm	4
5. SEED DEFINITION AND BASIC STRUCTURE	5
5.1 Embryos	5
5.1.1 Basal	5
5.1.2 Axile	5
5.1.3 Peripheral	5
5.1.4 Entire	5
5.2 Nutritive tissue	6
5.2.1 Nutritive tissues apart from the embryo	6
5.2.1.1 Endosperm	6
5.2.1.2 Perisperm	6
5.2.1.3 Female gametophyte	6
5.2.2 Nutritive tissues within the embryo	6
5.2.2.1 Cotyledons	6
5.3 Seed coat, testa, pericarp	6
6. DORMANT SEED	6
6.1 Types of dormancy	7
6.1.1 Exogenous	7
6.1.2 Endogenous	7
6.2 Degrees of dormancy	7
6.3 Deep dormancy	7
6.4 Hard seed and scarification	7

7. EQUIPMENT AND SUPPLIES	8
7.1 Staining dishes	8
7.2 Cutting, piercing, cracking devices	8
7.3 Forceps/ tweezers	8
7.4 Visual aids	8
7.5 Conditioning (seed moistening) media	8
7.6 Temperature control units	8
7.7 Miscellaneous items	8
7.8 Check sample to monitor TZ solution	8
8. SOLUTIONS	9
8.1 Tetrazolium solution	9
8.2 Buffer solution	10
8.3 Other solutions used in TZ testing	10
8.3.1 Lactic acid and glycerol	10
8.3.2 Gibberellic acid (GA ₃)	10
8.3.3 Hydrogen peroxide (H ₂ O ₂)	10
8.3.4 Mucilage hardening reagents	11
8.3.5 Acids and bases used for the scarification of hard seed	11
9. TEMPERATURE	11
10. LIGHT	11
11. PRESSURE (Partial Vacuum)	11
12. SOURCE OF SEEDS TO TEST	12
13. NUMBER OF SEEDS TO TEST	12
14. PREPARATION OF SEED FOR TESTING	12
14.1 Preconditioning	12
14.1.1 Slow moistening	13
14.1.2 Soaking	13
14.1.3 No conditioning	13
14.2 Preparation and staining	13
14.3 Post-staining	14
15. EVALUATION OF TETRAZOLIUM TESTS	14
15.1 TZ as a viability test	14
15.1.1 Speed	15
15.1.2 Accuracy	15
15.1.3 Evaluation subtleties	16
15.1.3.1 False positives	17
15.1.3.2 False negatives	17
15.1.3.3 Multiple seed units and multiple embryos	18
15.1.3.4 Immature seed	18
15.2 TZ as a vigor test	18

PART II. TETRAZOLIUM TESTING PROCEDURES

USING THE HANDBOOK AS A REFERENCE GUIDE	19
HANDBOOK CONTENTS	19
SYMBOLS AND ABBREVIATIONS	20
Icons	20
Illustration labels	20
TETRAZOLIUM SEED PREPARATION METHODS AND TECHNIQUES (illustrations)	21

[*Tabbed Section*]

Alphabetized Plant Families

(see next page for the plant families included in this handbook)

APPENDIX

GLOSSARY

INDEX - A [Family/Genus]

INDEX - B [Genus/Family]

LABORATORY REFERENCES

BIBLIOGRAPHY

Plant Families Included in Handbook

- A**
ACANTHACEAE
ACERACEAE
AGAVACEAE
AIZOACEAE
AMARANTHACEAE
ANACARDIACEAE
APIACEAE
APOCYNACEAE
ASCLEPIADACEAE
ASTERACEAE
- B**
BALSAMINACEAE
BEGONIACEAE
BERBERIDACEAE
BETULACEAE
BIGNONIACEAE
BORAGINACEAE
BRASSICACEAE I
BRASSICACEAE II
- C**
CACTACEAE
CAMPANULACEAE
CAPPARACEAE
CAPRIFOLIACEAE
CARYOPHYLLACEAE
CASUARINACEAE
CELASTRACEAE
CHENOPODIACEAE
CISTACEAE
COMMELINACEAE
CONVOLVULACEAE
CORNACEAE
CRASSULACEAE
CUCURBITACEAE
CUPRESSACEAE
CYPERACEAE
- D**
DIPSACACEAE
- E**
EBENACEAE
ELAEAGNACEAE
EPHEDRACEAE
ERICACEAE
EUPHORBIACEAE
- F**
FABACEAE I
FABACEAE II
FABACEAE III
FAGACEAE
- G**
GENTIANACEAE
GERANIACEAE
GESNERIACEAE
GINKGOACEAE
GROSSULARIACEAE
- H**
HAMAMELIDACEAE
HIPPOCASTANACEAE
HYDROPHYLLACEAE
- I**
IRIDACEAE
- J**
JUGLANDACEAE
JUNCACEAE
- K**
- L**
LAMIACEAE
LILIACEAE I
LILIACEAE II
LIMNANTHACEAE
LINACEAE
- M**
MAGNOLIACEAE
MALVACEAE I
MALVACEAE II
MYRTACEAE
- N**
NYCTAGINACEAE
NYSSACEAE
- O**
OLEACEAE
ONAGRACEAE
- P**
PAPAVERACEAE
PASSIFLORACEAE
PEDALIACEAE
PINACEAE
PLANTAGINACEAE
PLATANACEAE
PLUMBAGINACEAE
POACEAE I
POACEAE II
POACEAE III
POLEMONIACEAE
POLYGONACEAE
- PORTULACACEAE
PRIMULACEAE
PROTEACEAE
- Q**
- R**
RANUNCULACEAE
RESEDACEAE
RHAMNACEAE
ROSACEAE I
ROSACEAE II
ROSACEAE III
RUTACEAE
- S**
SALICACEAE
SAPINDACEAE
SCROPHULARIACEAE
SIMAROUBACEAE
SIMMONDSIACEAE
SOLANACEAE
Nicotiana, Petunia
SPARGANIACEAE
- T**
TAXACEAE
TAXODIACEAE
TILIACEAE
TROPAEOLACEAE
- U**
ULMACEAE
- V**
VALERIANACEAE
VERBENACEAE
VIOLACEAE
VIATACEAE
- W – X – Y**
- Z**
ZYGOPHYLLACEAE

Acknowledgements

The preparation of this handbook began in earnest in the early 1990's by the AOSA Tetrazolium Subcommittee members who compiled the information.

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Jack Peters, Editor

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Direct questions or comments about the contents of this handbook to the AOSA Tetrazolium Subcommittee (see website) or the appropriate laboratory references listed for each family. Newly revised pages and procedures for submitting changes and additions are also available at www.aosaseed.com.

PREFACE

This handbook has been the result of several years of collaboration by many seed analysts in the *Society of Commercial Seed Technologists* and the *Association of Official Seed Analysts*. Many are listed in the acknowledgements. While it has taken many years to develop this edition, the handbook is by no means complete. Additional procedures for plant families not listed in this handbook may be added in future editions.

The intent of the handbook is to offer guidelines and methodologies in tetrazolium testing. The ultimate goal is to provide uniformity in tetrazolium seed testing, with regard to procedures and TZ staining evaluation. Illustrations in the handbook are used to describe seed/embryo morphology, preparation/cutting techniques, and TZ staining patterns. A bibliography at the end of the handbook lists references associated with tetrazolium seed testing.

The handbook's notebook format is intended to encourage further refinement and experimentation with the TZ methods and techniques. Ample space for notes allows analysts to personalize the instructions. Part II is unpaginated to allow easy updates and additions of plant family procedures. It is the committee's hope that analysts will continue to share experiences and improve the handbook by submitting suggested changes to the committee. Periodic additions and changes are the best way to ensure that the handbook will continue to meet the needs of analysts.

Furrows be glad, though earth is bare —
one more seed is planted there.
Give up your strength the seed to nourish —
that in course the flower may flourish.

Besañon Carol