CONTENTS

TABLE CAPTIONS

CHAPTER 2

CHAPTER 4

FIGURE CAPTIONS

CHAPTER 1

CHAPTER 2

CHAPTER 3

CHAPTER 4

TABLE FOR FULL TEXT OF CHEMICAL REAGENTS

Simplified Form	Full Text (or Synonyms)	Formula	Molecular Weight
TMSPED	N-[3-(trimethoxysilyl)propyl]-ethylene diamine	$C_8H_{22}N_2O_3Si$	222.36
APTES	3-aminopropyltriethoxysilane	$C_9H_{23}NO_3Si$	221.37
Citric acid Monohydrate	Acidum citricum monohydricum	$C_6H_8O_7 \cdot H_2O$	210.14
Tyramine	4-(2-Aminoethyl)phenol	$C_8H_{11}NO$	137.18
MSA	D, L-mercaptosucinic acid	$C_4H_6O_4S$	150.15
AET	2-aminoethane thiol	$C_2H_7NS.HCl$	113.61