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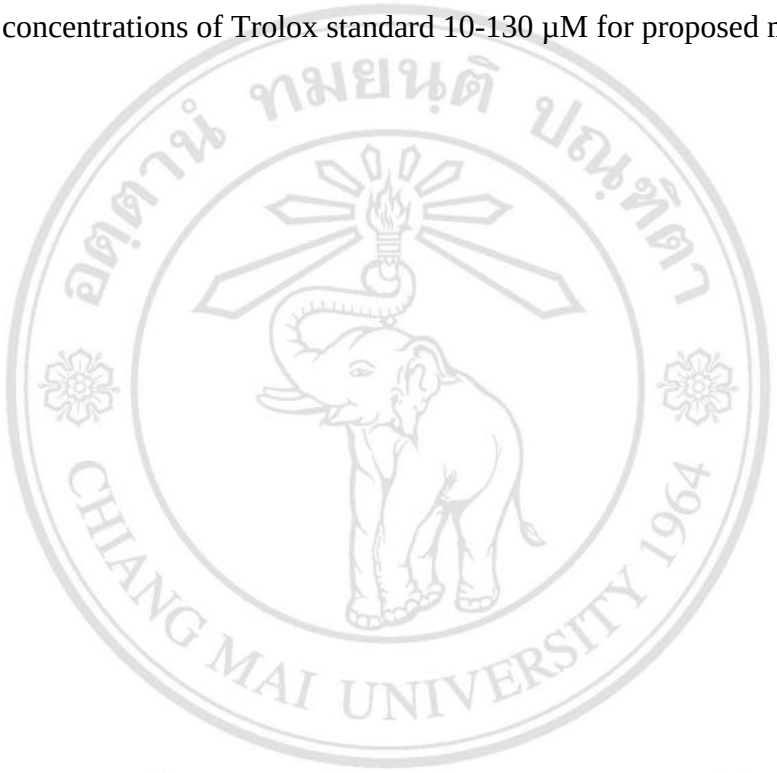

LIST OF ABBREVIATIONS

ABTS	2,2′-Azinobis(3-ethylbenzothiazoline-6-sulfonic acid)
ACA	aldehyde/carboxylic acid
App	Application
CCD	Charged coupled device
CSPT	Computer screen photoassisted technique
CMOS	Complementary metal oxide-semiconductor
CHT	Circular hough transform
DI	Deionized water
DPPH	2,2-diphenyl-1-picrylhydrazyl
DSLR	Digital single-lens reflex
ELISA	Enzyme-linked immunosorbent assay
FTC	Ferric thiocyanate
FOX	Ferrous oxidation-xylenol orange
FRAP	Ferric reducing antioxidant power
HTS	High throughput screening
ISO	International standards organization
IOS	iPhone OS
MATLAB	Matrix laboratory
MINIPAM	Pulse-amplitude modulation

LED	Light emitting diode
LOD	Limit of detection
RGB	Intensity of red (R), green (G) and blue (B) color
RDSC	Relative DPPH radical scavenging capacity
RSD	Relative standard deviation
SD	Standard deviation
TE	Trolox equivalents
TEAC	Trolox equivalent antioxidant capacity
3D	Three-dimensional

LIST OF SYMBOLS

Abs	Absorbance
^{o}C	Degree Celsius
e.g.	Exempli gratia (for example)
g	Gram
i.e.	id est (that is)
K	Kelvin
kg	Kilogram
$\bar{x}$	Mean value
Xmea	Measured value
µL	Microliter
µM	Micromolar
mm	Millimeter
mM	Millimolar
mL	Milliliter
min	Minute
R^2	Square of correlation coefficient
xt	True value
v/v	volume by volume
% w/v	Weight to volume percentage