TABLE OF CONTENTS

LIST OF TABLES

LIST OF TABLES (Continued)

LIST OF TABLES (Continued)

LIST OF TABLES (Continued)

LIST OF ILLUSTRATIONS

LIST OF ILLUSTRATIONS (Continued)

LIST OF ILLUSTRATIONS (Continued)

LIST OF ILLUSTRATIONS (Continued)

ABBREVIATIONS AND SYMBOLS

%	=	Percentage
®	=	Trade name of product
2-ME	=	2-Mercaptoehtanol
2-P	=	2-Pyrrolidone
AA	=	Arachidonic acid
av	=	Average
°C	=	Degree Celsius
CBI	=	Cyanobenz [f] isoindoles
cGMP	=	Cyclic of Guanosin-5-phosphoric acid
cm	=	Centimeter
cm^2	=	Square centimeter
cm^3	=	Cubic centimeter
CN^-	=	Cyanide ion
Co., Ltd.	=	Company limited
conc	=	Concentration
cP	=	Centipoise
DMAA	=	Dimethylacetamide
DMF	=	Dimethylformamide
DMSO	=	Dimethylsulfoxide
Em SBW	=	Emission slit bandwidth
et al	=	And others
etc	=	et cetera, and all the others
Ex SBW	=	Excitation slit bandwidth
exp	=	Exponential relation

ABBREVIATIONS AND SYMBOLS (Continued)

°F	=	Degree Fahrenheit
f*	=	The stress
g	=	gram
GC	=	Gas chromatography
HPLC	=	High performance liquid chromatography
HPMC	=	Hydroxypropylmethylcellulose
I_0	=	The power of the excitation source
KCN	=	Potassium cyanide
kg	=	Kilogram
l	=	liter
LOD	=	Limit of detection
M	=	Molar concentration, mole per liter
m^2	=	square meter
m^3	=	cubic meter
mg	=	Milligram
min	=	Minute
ml	=	Milliliter
mm	=	Millimeter
mPa	=	millipascal
Mw	=	Molecular weight
NDA	=	Naphthalene-2,3-dicarboxaldehyde
nm	=	nanometer
NMP	=	N-methylpyrrolidone
NSIADs	=	Nonstroidal anti-inflammatory drugs
OPA	=	o-phthaladehyde
Pa	=	Pascal
PBS	=	Phosphate buffer saline

ABBREVIATIONS AND SYMBOLS (Continued)

PG	=	Propylene glycol
PGE_2	=	Prostaglandin E_2
pH	=	The negative logarithm of the hydrogen ion concentration
Ph.Eur.	=	European Pharmacopoeia
pK_a	=	Negative log of ionization constant of acid
PMT	=	Photo multiplier tube
PVP	=	Polyvinyl pyrrolidone
R^2	=	Coefficient of determination
RSD	=	Relative standard deviation
RT	=	Room temperature
S_0	=	Vibrational level of ground state
S_1	=	Vibrational level of excited state
SC	=	Stratum corneum
SD	=	Standard deviation
sec	=	Second
temp	=	Temperature
TNBS	=	2,4,6-trinitrobenzenesulfonic acid
trans-AMCA	=	*trans*-4-(Aminomethyl) cyclohexane carboxylic acid
UV	=	Ultraviolet
w/w	=	weight by weight
α	=	Elongation of the polymer
ϕ_f	=	The quantum efficiency of an analyte
ε	=	Molar absorptivity
λ_{em}	=	Emission wavelength
λ_{ex}	=	Excitation wavelength
μ	=	Friction efficiency
μg	=	Microgram
μl	=	Microliter