

# Curriculum Vitae

**NAME** : MOHAMMED HAFIZ ABDEL- HAY

**PRESENT POST** : Professor of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University of Alexandria , EGYPT.

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**DATE OF BIRTH** : 10<sup>th</sup> Jan.1951

**MARITAL STATUS&NUMBER OF CHILDREN** : Married / three children



## ACADEMIC RECORD :

1. B.Pharm. Sc. , June 1974 ( Honor Class , with Distinction ) , Faculty of Pharmacy , University of Alexandria .
2. M. Sc. Pharmaceutical Analytical Chemistry , January 1978, Faculty of Pharmacy , University of Alexandria .
3. Ph. D. . Pharmaceutical Analytical Chemistry , December 1981 , Faculty of Pharmacy , University of Alexandria .

## WORKING EXPERIENCE

1. **Teaching Assistant** , Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University of Alexandria , EGYPT ( **1974 – 1979** )
2. **Research Fellowship** , Ohio State University, Columbus, Ohio, USA , under the program of the Agency for International Development of the Government of the USA in co-operation with the Ministry of Higher Education of EGYPT ( **1979 -1981** ).
3. **Lecturer** , , Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University of Alexandria , EGYPT ( **1982 – 1987** ) .
4. **Visiting Lecturer** , Department of Pharmaceutical Chemistry , Faculty of Pharmacy , University of Khartoum , SUDAN ( **January – April : 1983** ).
5. **Post-Doctor Research Fellowship** , King Fahd Medical Research Center , Jeddah , Saudi Arabia ( **1984 – 1986** ).
6. **Assistant Professor** , Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University of Alexandria , EGYPT ( **1987 – 1994** ) .
7. **Associate Professor** , Department of Medicinal Chemistry, Faculty of Pharmacy, Jordan University of Science & Technology, JORDAN ( **1989-1991** )
8. **Head of the Department of Pharmaceutical & Biochemistry** , Oman Assistant Pharmacy Institute, OMAN ( **1991 –1995** ) .
9. **Professor** , Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University of Alexandria , EGYPT ( **1994 – on** ) .
10. **Head of the Department of Pharmaceutical Analytical Chemistry** , Faculty of Pharmacy, University of Alexandria , EGYPT ( **2009 – 2011** ) .

## **Postgraduate Degrees Supervised**

Eight M. Sc. & Six Ph. D. Thesis in Pharmaceutical Analytical Chemistry.

## **Industrial Experience**

1. Consultant to Quality Control Laboratory , Pharco Pharmaceuticals, Alexandria, EGYPT (1986 – 1989).
2. Consultant to Research & Development Sector, Pharco Pharmaceuticals Alexandria, EGYPT (1995- 2004) & Amriya Pharmaceutical Industries, Alexandria, EGYPT (2003- 2004).
3. Consultant to Research & Development and Quality Control Sector, Pharco Pharmaceuticals, Alexandria, EGYPT (2006- on).

## **Research Interest**

Method development for drug analysis in pure form, in different dosage forms, and in biological samples such as plasma and urine. Stability study of drugs in dosage forms and in biological fluids through application of mathematical models. Application of statistical analysis for evaluation of analytical data. Among the analytical techniques of interest are different spectroscopic techniques, chromatography such as HPLC, GC, and TLC, in addition to polarography. In all these fields, more than 40 scientific papers were published in international journals.

## **Teaching Experience**

### **Undergraduate Level:**

- Theory and practical courses in Pharmaceutical Analytical Chemistry for first & second year students , Faculty of Pharmacy , University of Alexandria , EGYPT (1974 to date ) ; for second year students , Faculty of Pharmacy , University of Zagazig , EGYPT ( 1982 – 1984 ) ; and for second & third year students , Faculty of Pharmacy , University of Khartoum , SUDAN ( 1983 ) .
- Theory and practical courses in Pharmaceutical Analytical Chemistry, Instrumental Analysis ,and Quality Control for second , third & fourth year students , Faculty of Pharmacy , Jordan University of Science & Technology , JORDAN ( 1989 – 1991 ) .
- Theory and practical courses in Basic Chemistry , Pharmaceutical Analytical Chemistry and Medicinal Chemistry for first , second & third year students ,Oman Assistant Pharmacy Institute, OMAN (1991– 1995).
- Theory and practical courses in Pharmaceutical Analytical Chemistry and Instrumental Analysis , Faculty of Pharmacy, Beirut Arab University , Beirut , LEBANON ( 2002 ) .
- Theory and practical courses in Pharmaceutical Analytical Chemistry and Instrumental Analysis, Quality Control, Faculty of Pharmacy, King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia (2004 – 2006).

### **Postgraduate Level:**

Courses in Advanced Analytical Chemistry , Advanced Instrumental Analysis & Quality Control for M.Sc. Students , Faculty of Pharmacy , University of Alexandria , EGYPT (1982 to date ) .

## **HONORS**

“An Award for Research Encouragement in the Field of Pharmaceutical Chemistry, offered by the University of Alexandria in 1988 “

## LIST OF PUBLICATIONS

1. Basic Fuchsin as an Ion- Pairing Reagent for Some Acidic Drugs.  
Analyst , 103 , 876- 879 ( 1978 ).  
A.M. Wahbi , H. Abdine , M.A. Korany and M.H. Abdel-Hay .
2. Sodium Cobaltinitrite as a Reagent for Determining Some Phenolic Drugs.  
J. Assoc. Off. Anal. Chem. , 61 (5) , 1113 –1117 ( 1978 ).  
Abdel-Aziz M. Wahbi , Hassan Abdine , Mohamed Korany and Mohamed H. Abdel-Hay .
3. p-Benzoquinone as a Reagent for Determining Some Catecholamines.  
Journal of Pharmaceutical & Biomedical Analysis, 2 (3/4), 537-541 (1984).  
M.A. Korany, A.M. Wahbi and M. H. Abdel-Hay.
4. High – Performance Liquid Chromatographic Determination of  
Pyrrolizine Isopropyl Carbamate .  
Analyst , 110 , 1263-1264 ( 1985 ) .  
L. Malspeis , Mohamed H. Abdel-Hay and Abdel-Aziz M. Wahbi .
5. Gas Chromatographic Determination of Pyrazoloimidazole .  
Journal of Chromatography, Biomedical Applications, 343, 190-195 (1985).  
L. Malspeis , Mohamed H. Abdel-Hay and Abdel-Aziz M. Wahbi.
6. Spectrofluorimetric Micro-determination of Imidazoline Derivatives  
using 1-Dimethylaminonaphthalene-5-Sulphonyl Chloride .  
Analyst , 109 , 1431-1434 ( 1984 ) .  
Magda M. Ayad and M. H. Abdel-Hay .
7. Spectroscopic Investigation of the Antazoline-p-Chloranilic Acid  
Reaction Product .  
Spectroscopy Letters 17 (12) 803-818 ( 1984 ) .  
M.A. El-Sayed , M.E. Abdel-Hamid , M.A. Korany , M.H. Abdel-Hay  
and Shereen M. Galal .
8. Colorimetric Determination of Carazolol and Pindolol using 3-Methyl-  
2-Benzothiazolone Hydrazone Hydrochloride .  
Indian J. Pharm. Sci. , Sept.-Oct. , 183-185 ( 1984 ) .  
F.A. El-Yazbi , M.A. Korany and M.H. Abdel-Hay .
9. Colorimetric Determination of Some B-Adrenergic Blocking Drugs in Tablets.  
J. Pharm. Belg. , 40(3) , 178-184 ( 1984 ) .  
M.A. Korany , M.H. Abdel-Hay, Shereen M.Galal and M.A. El-sayed .
10. Spectrophotometric , Fluorometric and Colorimetric Determination of  
Terbutaline Sulphate and Orciprenaline Sulphate .  
IL-Farmaco , 40 ( 2 ) , 50-57 ( 1985 ) .  
F.A. El Yazbi , M.H. Abdel-Hay and M.A. Korany .
11. Determination of Nitrazepam and Dipotassium Clorazepate in the  
Presence of Their Degradation Products using Second Derivative  
Spectrophotometry .  
International Journal of Pharmaceutics , 27 , 139-144 ( 1985 ) .

- F.A. El-Yazbi , M.H. Barary and M.H. Abdel-Hay .
12. Spectrophotometric Determination of Some 1,4-Benzodiazepines by use of Orthogonal Polynomials .  
Pharmazie ,41 (H.9) , 639-642 ( 1986 ) .  
F.A. El-Yazbi , M.H. Abdel-Hay and M.A. Korany .
  13. Extraction Spectrophotometric Determination of Certain non-Steroidal anti-Inflammatory AGENTS USING Basic Dyes .  
2<sup>nd</sup> International Symposium on Drug Analysis , Brussels-May 1986.  
M.H. Abdel-Hay , M.M. Ayad , A. Ahmed .
  14. Stability of Creatinine, Urea and Uric Acid in Urine Stored under Various Conditions .  
Clinica Chimica Acta , 160 , 319-326 ( 1986 ) .  
Sobhi A. Soliman , Mohamed H. Abdel-Hay , Mansour I. Sulaiman and Osama S. Tayeb .
  15. p-Chloranilic Acid as a Reagent for Determining Some Nitrogenous Basic Compounds .  
Alex. J. Pharm. Sci. , 1 (1) , 11-15 ( 1987 ) .  
Mohamed H. Abdel-Hay , Mohamed A. Korany , Shereen M. Galal and Mahmoud A. El-Sayed .
  16. Application of Transformation Algorithm and Nonparametric Calculation in Determining the Reference Intervals of Some Urine Constituents and Characteristics .  
Clinica Chimica Acta , 166 , 9-16 ( 1987 ) .  
Sobhi A. Soliman , Mohamed H. Abdel-Hay , Osama S. Tayeb and Mansour I. Sulaiman .
  17. Determination of Noscapine , Chlorpheniramine Maleate , Phenylpropanolamine Hydrochloride and Phenylephrine Hydrochloride in a Cough Mixture .  
Alex. J. Pharm. Sci. , 11 (2) , 135-139 ( 1988 ) .  
Mohamed H. Abdel-Hay , Fawzy El-Anwar and Mohamed A. Korany.
  18. Utility of Spectrophotometry in the Determination of Carbochromen Hydrochloride and Dipyridamole in the Presence of Their Oxidative Degradation Products.  
Analytical Letters , 22 (7) , 1643-1664 ( 1989 ) .  
Magda H. Barary , Mahmoud A. El-Sayed , Mohamed H. Abdel-Hay and Suzy M. Sabry.
  19. Use of Differential Derivative Spectrophotometry and Complexation with Pallidium for the Assay of Three Phenothiazine Drugs in Tablets.  
Spectroscopy Letters , 22 (8) , 1025-1044 ( 1989 ) .  
Mohamed H. Abdel-Hay , M. H. Barary , E. M. Hassan and M.A.El-Sayed.
  20. Colorimetric Determination of Some Penicillins and Cephalosporins with 2-Nitrophenylhydrazine hydrochloride .  
Talanta , 36 (12) , 1253-1257 ( 1989 ) .

- Mohamed A. Korany , Mohamed H. Abdel-Hay , Mona M. Bedair and Azza A. Gazy .
21. Determination of Isothiopendyl or Dimethothiazine with Their Sulphoxides using Third and Fourth Derivatives Spectroscopy on a Diode-array Spectrophotometer .  
J. Pharm. Belg. , 45 (4) ,259-267 ( 1990 ).  
Mohamed H. Abdel-Hay, M.A. El-Sayed , M.H.Barary and E.M.Hassan.
  22. Derivative Spectrophotometric Determination of Glibenclamide, Mebeverine Hydrochloride and Clopamide in Presence of Their Alkaline-induced degradation Products.  
Analyst, 115, 449-453 (1990).  
Mona M. Bedair, Mohamed A. Korany , Mohamed H. Abdel-Hay, and Azza A. Gazy.
  23. Assay of Glafenine and Floctafenine and Their Degradation Products in Combination.  
Analytical Letters , 23 (2) , 295-310, ( 1990 ).  
Mohamed H. Abdel-Hay, M. H. Barary, E. M. Hassan and M.A.El-Sayed.
  24. Colorimetric Determination of Seven Nonsteroidal Anti-inflammatory Drugs Using 2-Nitrophenylhydrazine Hydrochloride .  
Analytical Letters , 23 (2) , 281-294, ( 1990 ).  
Mohamed H. Abdel-Hay , Mohamed A. Korany , Mona M. Bedair and Azza A. Gazy .
  25. Use of Derivative Spectrophotometry for the In-Vitro Determination of Allopurinol and Uric Acid Mixtures.  
Analytical Letters , 24 (9) , 1517-1530 , ( 1991 ).  
Mohamed H. Abdel-Hay , magda H. Barary , M.A. El-Sayed and Ekram M. Hassan.
  26. The Analysis of a Triple Sulphonamide in Pharmaceutical Powder Form by HPLC.  
Analytical letters , 24 (5) , 767-779 ( 1991 ) .  
F.M. El-Anwar , A.M. El-Walily , Mohamed H. Abdel-Hay and M. El-Swify .
  27. Simultaneous Determination of Acetaminophen with Orphenadrine Citrate , Ibuprofen or Chlorzoxazone in Combined Dosage Forms by Zero-Crossing Derivative Spectrophotometry .  
Analytical Letters , 24 (12) , 2187-2206 , ( 1991 ) .  
Mohie K. Sharaf El-Din , Mustafa A. Abuirjeie and Mohamed H. Abdel-Hay.
  28. Zero-Crossing Third-Derivative Spectrophotometry for the Simultaneous Determination of Allethrin and Piperonyl Butoxide in Aerosol and Shampou.  
Spectroscopy Letters , 24 (6) , 883-893 ( 1991 ) .  
Mustafa A. Abuirjeie, Mohamed H. Abdel-Hay and Mohie K. Sharaf El-Din.
  29. High-Performance Liquid Chromatographic Determination of Floctafenine and its Major Metabolite Floctafenic Acid in Plasma .

- Journal of Clinical Pharmacy and Therapeutics , 17 , 31-35 ( 1992 ) .  
Mohamed H. Abdel-Hay and A.M. Gharaibeh .
30. Simultaneous Determination of Theophylline and Guaiphenesin by Third-Derivative Ultraviolet Spectrophotometry and High-Performance Liquid Chromatography .  
Analyst , 117 , 157-160 , ( 1992 ) .  
Mohamed H. Abdel-Hay , Mohie K. Sharaf El-Din and Mustafa A. Abuirjeie.
31. Chemical and Microbiological Investigation of Metal Ion Interaction with Norfloxacin .  
International Journal of Pharmaceutics , 87 , 73-77 , ( 1992 ) .  
H.N. Alkaysi , Mohamed H. Abdel-Hay , M. Sheikh Salem , A.M. Gharaibeh and T.E. Na'was .
32. Application of Derivative Spectrophotometry to the Determination of the Acid-Metabolite of Glafenine and Floctafenine in Urine .  
Alex. J. Pharm. Sci. , 6 (1) ,86-88 , ( 1992 ) .  
Abdel-Fattah El-Walily ,Mohamed H. Abdel-Hay , Magda H. Barary, Mahmoud A. El-Sayed and Ekram M. Hassan .
33. Spectrofluorimetric Determination of Guanethidine Sulphate , Guanoxan Sulphate and Amiloride Hydrochloride in Tablets and in Biological Fluids using 9,10-Phenanthraquinone .  
Talanta , 39 (10) , 1369-1375 , ( 1992 ) .  
Mohamed H. Abdel-Hay , Shereen M. Galal , Mona M. Bedair , Azza A. Gazy and Abdel-Aziz M. Wahbi .
34. Spectrofluorimetric Determination of Guanethidine Sulphate , Guanfacine Hydrochloride , Guanoclor Sulphate and Guanoxan Sulphate in Tablets and in Biological Fluids using Benzoin .  
Mikrochimica Acta , 111 , 83-89 , ( 1993 ) .  
Abdel-Aziz M. Wahbi , Mona M. Bedair , Shereen M. Galal , Mohamed H. Abdel-Hay and Azza A. Gazy .
35. Stability-Indicating Derivative Spectrophotometric Determination of Frusemide.  
International Journal of Pharmaceutics , 99 , 333-336 , ( 1993 ) .  
Mohamed H. Abdel-Hay .
36. High-Performance Liquid Chromatographic Determination of Floctafenine in Presence of Floctafenic Acid .  
Alex. J. Pharm. Sci. , 7 (1) , 25-28 , ( 1993 ) .  
Mohamed H. Abdel-Hay .
37. Simultaneous Analysis of a Ternary Mixture of Pharmaceuticals Containing Trimethoprim , Sulphamethoxazole and Phenazopyridine Hydrochloride using Third-Derivative and Zero-Order Photodiode Array Spectrophotometry.  
Spectroscopy Letters , 26 (9) , 1745-1759 , ( 1993 ) .  
Mohamed H. Abdel-Hay and A.M. El-Walily .
38. Simultaneous Determination of Melatonin-Pyridoxine Combination in Tablets by Zero-Crossing Derivative Spectrophotometry and Spectrofluorimetry.

- Journal of Pharmaceutical and Biomedical Analysis ,17, 379-386,( 1998 ).  
 Heba H. Abdine , Azza A. Gazy and Mohamed H. Abdel-Hay .
39. Colorimetric and Spectrofluorimetric Methods for the Determination of Melatonin in Tablets and Serum.  
 Spectroscopy Letters, 31(1), 177-197, 1998.  
 Azza A. Gazy, Heba H. Abdine and Mohammed H. Abdel-Hay.
  40. Sensitive Spectrofluorimetric and Spectrophotometric Methods for the Determination of Thonzylamine Hydrochloride in Pharmaceutical Preparations based on Coupling with Dimethylbarbituric Acid in Presence of Dicyclohexylcarbodiimide .  
 Journal of Pharmaceutical and Biomedical Analysis , 22 , 257-264,(2000).  
 Suzy M. Sabry, Mohamed H. Abdel-Hay, Magda H. Barary and Tarek S.Belal.
  41. Colorimetric Determination of Crude Powdered Myrrh , Purified Myrrh Extract, Oily Fraction and its Different Pharmaceutical Dosage Forms.  
 Spectroscopy Letters , 35(2), 183-197, ( 2002 ).  
Mohamed H. Abdel-Hay , Amal Saleh , E.S.H. El-Ashry , N. Rashed and Osama Salama .
  42. Spectrofluorimetric determination of 2-aminopyridine as a potential impurity in piroxicam and tenoxicam within the pharmacopoeial limit.  
 Journal of Pharmaceutical and Biomedical Analysis,34(1),221- 226, (2004).  
 Magda H.Barary,Mohamed H.Abdel-Hay,Suzy M.Sabry and Tarek S.Belal.
  43. Adsorptive stripping voltammetric behaviour of azomethine group in pyrimidine-containing drugs.  
 Journal of Pharmaceutical and Biomedical Analysis,34(3),509-516, 2004.  
 Suzy M.Sabry,Magda H.Barary,Mohamed H.Abdel-Hay and Tarek S.Belal.
  44. Spectrophotometric Determination of Bisacodyl and Piribedil.  
 Analytical Letters, 37(2), 259-274, 2004.  
Mohamed H.Abdel-Hay, Suzy M.Sabry,Magda H.Barary, and Tarek S.Belal.
  45. Simultaneous Determination of Cinnarizine and Domperidone Maleate Using H-Point Standard Additions Method, Derivative and Derivative-Ratio Spectrophotometry.  
 Bull. Fac. Pharm. Cairo Univ., Vol. 44, No. 2, 175-184, 2006.  
 Azza A. Gazy, Ekram M. Hassan, Mohamed H.Abdel-Hay and Tarek S.Belal.
  46. Simultaneous Determination of Hydrochlorothiazide and Timolol Maleate In Binary Mixture Using Zero-Crossing Derivative and Derivative-Ratio Spectrophotometry.  
 Bull. Fac. Pharm. Cairo Univ., Vol. 44, No. 2, 185-193, 2006.  
 Ekram M. Hassan, Azza A. Gazy, Mohamed H.Abdel-Hay and Tarek S.Belal.
  47. High Performance Liquid Chromatographic Determination of Proquazone and its m-Hydroxy Metabolite in Spiked Human Plasma and Urine.  
 Journal of AOAC Int., 90(4), 971-976, 2007.  
 Ekram M. Hassan, Azza A. Gazy, Mohamed H.Abdel-Hay and Tarek S.Belal.

48. Differential Pulse Cathodic Voltammetric Determination Of Floctafenine and Metopimazine.  
Journal of Pharmaceutical and Biomedical Analysis, 43, 1535-1539, 2007.  
Azza A. Gazy, Ekram M. Hassan, Mohamed H. Abdel-Hay and Tarek S. Belal.
49. Stability-Indicating Differential Pulse Polarographic and Derivative Spectrophotometric Determination of Tertrazepam in Presence of its Acid-Induced Degradation Product.  
Alex. J. Pharm. Sci., 22 (1) , 51-57, 2008.  
Mohamed H. Abdel-Hay, Shereen M. Galal and Marwa A. Ragab.
50. Determination of Rofecoxib By Differential Pulse Polarography.  
Alex. J. Pharm. Sci., 22 (1) , 58-60, 2008.  
Shereen M. Galal, Mohamed H. Abdel-Hay, and Marwa A. Ragab.
51. Spectrophotometric Determination of Some Drugs Used in the Management of Inflammation and Musculoskeletal Disorders.  
Bull. Fac. Pharm. Cairo Univ., Vol. 46, No. 1, 137-152, 2008.  
Shereen M. Galal, Mohamed H. Abdel-Hay, and Marwa A. Ragab.
52. Application of Derivative and Derivative-ratio Spectrophotometry in the Determination of a Binary Mixture of Naproxen and Diflunisal and a Ternary Mixture of Orphenadrine, Caffeine and Aspirin.  
Taiwan Pharmaceutical Journal, 59, 157-170, 2007.  
Mohamed H. Abdel-Hay, Shereen M. Galal and Marwa A. Ragab.
53. Derivative and derivative ratio spectrophotometric analysis of antihypertensive ternary mixture of amiloride hydrochloride, hydrochlorothiazide and timolol maleate.  
Journal of the Chinese Chemical Society, 55, 971-978, 2008.  
Mohamed H. Abdel-Hay, Azza A. Gazy, Ekram M. Hassan and Tarek S. Belal.
54. Kinetic spectrophotometric analysis and spectrofluorimetric analysis of ciprofloxacin hydrochloride and norfloxacin in pharmaceutical preparations using 4-chloro-7-nitrobenzo-2-oxa-1,3-diazole (NBD-Cl).  
Journal of the Chinese Chemical Society, 55, 818-827, 2008.  
Mohamed H. Abdel-Hay, Ekram M. Hassan, Azza A. Gazy and Tarek S. Belal.
55. Validated Stability-Indicating HPLC and HPTLC Methods for the Determination of Ritonavir in Bulk Powder and in Capsules.  
MOHAMMAD H. ABDELHAY, AZZA A. GAZY, RASHA A. SHAALAN AND HEBA K. ASHOUR  
Journal of Food and Drug Analysis, Vol. 20, No. 4, 2012, Pages 963-973.



56. Simple spectrophotometric methods for determination of tenofovir fumarate and emtricitabine in bulk powder and in tablets.  
MOHAMMAD H. ABDELHAY, AZZA A. GAZY, RASHA A. SHAALAN AND HEBA K. ASHOUR  
**Journal of Spectroscopy** (Volume 2013 (2013), Article ID 937409, 7 pages) .
57. Spectrophotometric Determination of Rabeprazole Sodium Using Two Charge Transfer Complexation Reactions.  
MOHAMMAD H. ABDELHAY, Suzy M. Sabry, Tarek S. Belal and Ahmed A. Mahgoub.  
Journal of Applied Pharmaceutical Science, 3 (11), 128 – 133, (2013).
58. HPLC-DAD stability indicating determination of nizatidine in bulk and capsules dosage form.  
Tarek S. Belal, MOHAMMAD H. ABDELHAY, Suzy M. Sabry, and Ahmed A. Mahgoub.  
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59. Selective RP-HPLC DAD method for determination of tenofovir fumarate and emtricitabine in bulk powder and in tablets.  
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60. Development and validation of HPLC-DAD method for the simultaneous determination of amoxicillin, metronidazole and rabeprazole sodium. Application to spiked simulated intestinal fluid samples.  
S.M. Sabry<sup>a</sup>, M.H. Abdel-Hay<sup>a</sup>, T.S. Belal<sup>a</sup>, and A.A. Mahgoub<sup>b</sup>  
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