

Alfred Baber Fonds

Travel Series

Northwest
1985-1990

QUEEN'S UNIVERSITY ARCHIVES	
LOCATOR	5095.5
BOX	9
FILE	6



Chemists Helping Chemists in Research and Industry

aldrich chemical company, inc.

Dr. Alfred Bader
Chairman

February 21, 1990

Mr. Gary R. Miller
149 D Street, N.E.
Ephrata, Washington 98823

Dear Mr. Miller:

I am so happy to note from your letter of February 16th to Ms. Jenny Novenski that your stepson is turned on by the painting on our catalog cover.

I do hope that he will like the enclosed.

Best personal regards,

Alfred Bader

AB:mmh

Enclosures

BLUE, GREEN OR GRAY, WHILE STARCH WORKS BETTER FOR SOLUTIONS HAVING YELLOW, BROWN OR REDDISH TINTS.

ON A DIFFERENT SUBJECT OF INTEREST TO ME, I'D LIKE TO KNOW IF YOU COULD RECOMMEND AN INDICATOR FOR Fe^{+3} TITRATIONS WITH CDTA. I'M USING GLYCOLIC ACID SOLUTION BOTH AS A BUFFER AND AS A MILD COMPLEXING AGENT (KEEPS PRECIPITATION FROM OCCURRING TO PH ABOUT 10) AND HAVE FOUND THAT ONLY SULFOSALICYLIC ACID AND TIRON WORK FOR TITRATIONS. CHROME AZUROL S AND ERIOCHROME CYANINE R FORM COLORED COMPLEXES OF LOWER STABILITY WITH THE Fe^{+3} THAN THAT WITH THE GLYCOLIC ACID AND SO CANNOT BE USED; EMPLOYMENT OF VARIAMINE BLUE B INDICATOR SOLUTION HAS ALSO NOT BEEN SUCCESSFUL. I'VE CHECKED THE LITERATURE AND FOUND ONE OF THE HYDROXAMIC ACIDS MAY BE A GOOD ALTERNATIVE, BUT DON'T WANT TO BUY THE MATERIAL IF IT WON'T WORK PROPERLY. WHAT I BASICALLY NEED IS AN INDICATOR FOR Fe^{+3} HAVING HIGH SENSITIVITY, SPECIFICITY AND STABILITY (AGAINST GLYCOLIC ACID); WITH SULFOSALICYLIC ACID OR TIRON I CAN APPROACH ± 100 PPM PRECISION IN TEST RESULTS, BUT A MORE SENSITIVE INDICATOR WOULD ENABLE ME TO DO BETTER. THE COLOR OF THE Fe^{+3} ION ITSELF IS A COMPLICATING FACTOR, BUT DILUTION CAN HELP REDUCE THIS AND A GOOD INDICATOR WILL MAKE THE ANALYSIS MORE PRECISE. WHATEVER YOU CAN SHARE WITH ME ON THIS WILL BE APPRECIATED; IT MAY NOT BE POSSIBLE TO EXTEND THE ANALYSIS BEYOND THE POINT I HAVE REACHED.

YOU MAY ENJOY SHARING THIS ONE LAST ITEM WITH DR. BADER: I HAVE A 14 YEAR OLD STEPSON, SHAUN VAN EYK, WHOSE ANCESTORS WERE FAMED DUTCH PAINTERS (ONE WAS JAN VAN EYK, I BELIEVE). RECENTLY I BROUGHT THE ALDRICH CATALOG HOME TO BROWSE THROUGH; HE SAW THE COVER AND WAS IMMEDIATELY INTERESTED. I SUSPECT HE WILL WANT TO HAVE HIS MOTHER AND I PURCHASE SOME ITEMS FROM THE BADER COLLECTION WHICH ALDRICH OFFERS. YOU WORK FOR A FASCINATING COMPANY.

YOURS TRULY,

Gary R. Miller

GARY R. MILLER
B.S. CHEMISTRY

GARY R. MILLER
149 "D" STREET, N.E.
EPHRATA, WASHINGTON 98823
FEBRUARY 16, 1990

Ms. JENNY NOVENSKI
ALDRICH CHEMICAL COMPANY, INC.
TECHNICAL SERVICES DEPARTMENT
P.O. Box 355
MILWAUKEE, WISCONSIN 53201

DEAR Ms. NOVENSKI:

I APPRECIATED OUR DISCUSSION CONCERNING POLYVINYL ALCOHOL THIS WEEK AND YOUR EXPRESSED INTEREST IN INFORMATION I HAVE ACCUMULATED RELATING TO ITS USE IN IODIMETRY, IODOMETRY AND SPECTROPHOTOMETRIC ANALYSES. I HAVE ENCLOSED THE MATERIAL AS PROMISED AND HOPE THAT YOU WILL FIND THE ARTICLES USEFUL. I HAD TO "DOCTOR" MY NOTES AND THE ARTICLE COPIED FROM MILLER AND BRACKEN WITH MY WORD PROCESSOR TO IMPROVE THEIR CONTINUITY AND READABILITY (SMITH CORONA PWP SYSTEM 14 WITH XD 8500 ELECTRONIC TYPEWRITER; MARVELOUS INSTRUMENT, WISH I HAD HAD ONE OF THESE WHILE GOING TO SCHOOL).

FEEL FREE TO SHARE THE INFORMATION SENT WITH YOUR COLLEAGUES AND EVEN TO SUBMIT IT FOR PUBLICATION IN ONE OF ALDRICH'S PERIODICALS IF YOU FEEL THERE WOULD BE SUFFICIENT INTEREST IN THE SCIENTIFIC COMMUNITY. THE MATERIAL FULFILLED A NEED FOR A SUBSTITUTE FOR THE DIFFICULT TO PREPARE LINEAR FRACTION OF POTATO STARCH DETAILED IN THE ORIGINAL PAPER BY ZITOMER AND LAMBERT ON ANALYSIS OF AMMONIA IN WATER; I WAS USING THE ABSORBANCE BY TRIIODIDE ION IN THE ULTRAVIOLET (UNSTABLE) WITH THE PROCEDURE UNTIL I FOUND PVA (COMPLEX WITH TRIIODIDE ION STABLE TO LIGHT). AS A FINAL NOTE, I'LL MENTION THE SUBSTITUTION OF PVA AS INDICATOR FOR THE STANDARDIZATION OF SODIUM THIOSULFATE SOLUTION WITH $K_2Cr_2O_7 + KI$; THE GREEN COLOR OF THE Cr^{+3} ION MAKES IT VERY DIFFICULT TO SEE THE ENDPOINT COLOR CHANGE OF STARCH FROM BLUE TO COLORLESS, WHILE PVA IS AT THE OPPOSITE END OF THE SPECTRUM AND ITS CHANGE IS MUCH MORE READILY PERCEIVED (DILUTION TO A LARGER VOLUME WITH WATER HELPS ACCENTUATE THE COLOR CHANGE, AS WITH STARCH). PVA IS A GOOD INDICATOR TO USE WITH SOLUTIONS WHOSE COLOR IS

For

AB

Date

7/23

Time

1:45

WHILE YOU WERE OUT

M

Mr Jeanine Shreve

of

U- Idaho (Moscow) 208

Phone

885-6552

Telephoned

Called to See You

Wants to See You

Please Return Call

Will Call Again

Urgent

Remarks

Re: Talk to ACS Dept Head
Oct 6-11 Chem.

She's a nice lady-

Signed

M.

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Chemists Helping Chemists in Research and Industry

aldrich chemical company, inc.

Dr. Alfred Bader
Chairman

March 8, 1985

Prof. Bruce Branchaud
Department of Chemistry
College of Arts & Sciences
UNIVERSITY OF OREGON
Eugene, Oregon 97403-1210

Dear Prof. Branchaud:

Thank you so much for your gracious letter of March 4.

I did visit the University of Oregon in Eugene once, many years ago, but that may have been before you were born.

I very much enjoy visiting chemistry departments and was in Madison yesterday and at the University of Chicago last week. However, these are very much closer than Oregon.

With departments of chemistry which are so far away, I like to combine my visits with speaking at A.C.S. sections, preferably at 3 or 4 sections in one week so that the travel expenses can be shared among the several sections.

If several sections in the Northwest would like to invite me, I would be happy to speak two or three times a day. One talk, on "Chemistry in Art" is usually best for a Ladies Night at A.C.S. sections. I also have several other talks, one on the challenges of a chemical company like Sigma-Aldrich is of particular interest to graduate students. Often I am also invited to art history departments, speaking on "The Bible through Dutch Eyes."

Best personal regards.

Sincerely,

Alfred Bader
AB:mmh



UNIVERSITY OF OREGON

March 4, 1985

Dr. Alfred Bader
Chairman
Aldrich Chemical Co., Inc.
PO Box 355
Milwaukee, WI 53201

Dear Dr. Bader:

Let me apologize for accidentally having my phone slightly off the hook last Friday; I'm sure the repeated busy signal was annoying.

I'm writing you now to convey a message I intended to express during our phone conversation but did not. I would be pleased to be your host for a visit to the University of Oregon whenever your travels take you to the west coast. I understand that you enjoy visiting universities and I don't believe you've ever visited here. I've enclosed a copy of our brochure for your information; I think you would have a stimulating day if you were to visit us.

Thank you again for your interest in my sulfenamide chemistry.

Sincerely,

Bruce Branchaud

Bruce Branchaud
Assistant Professor

BB:mw

Enclosure