

## WORLD BOTANICAL ASSOCIATES

P.O. Box 2829

Laurel, MD 20708-0829

October 18, 1984

Dr. David G. I. Kingston, Professor of Chemistry  
 Virginia Polytechnic Institute & State University  
 Department of Chemistry  
 Blacksburg, Virginia 24061

ACCESSION/PIECES	NAME/FAMILY	DESCRIPTION/WEIGHT	COLLECTOR-NO./DATE-ORIGIN
WBA-17*	<u>Hylocomium splendens</u> (Hedw.) B.S.G. Hylocomiaceae	Moss on soil 4.3 lbs.	EDSON-84-50 6/9/84 Oregon
WBA-18 1 bag	<u>Rhizoplaca melanophthalma</u> (Ram) Leuck. & Poelt Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8451 8/12/84 Colorado
WBA-19 1 bag	<u>Xanthoparmelia taractica</u> (Kremp.) Hale Parmeliaceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8456 8/13/84 Utah
WBA-20 1 bag	<u>Rhizoplaca chrysoleuca</u> (Smith) Zopf Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8458 8/14/84 Utah
WBA-21 1 bag	<u>Aspicilia alphoplaca</u> (Ach.) Hermann, Lueck. & Poelt Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8460 8/14/84 Utah

WBA ACCESSION RECORD FOR DR. DAVID KINGSTON, VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY

WBA-22	<u>Rhizoplaca chrysoleuca</u> (Smith) Zopf 1 bag Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8461 8/14/84 Utah
WBA-23	<u>Xanthoria elegans</u> (Link) Th. Fr. 1 bag Teloschistaceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8462 8/14/84 Utah
WBA-24	<u>Calopaca trachyphylla</u> (Tuck.) Zahlbr. 1 bag Teloschistaceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8463 8/14/84 Colorado
WBA-25	<u>Lecanora novomexicana</u> Magn. (group) 1 bag Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8464 8/14/84 Colorado
WBA-26	<u>Lecanora novomexicana</u> Magn. 1 bag Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8476 8/15/84 Utah
WBA-27	<u>Aspicilia</u> sp. 1 bag Lecanoraceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8477 8/16/84 Arizona
WBA-28*	<u>Psora</u> sp. 1 bag Placynthiaceae	Lichen on rock $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8487 8/20/84 Colorado
WBA-29	<u>Aulacomnium heterostichum</u> (Hedw.) B.S.G. 1 bag Aulacomniaceae	Moss on soil 3.75 lbs.	SPJUT-8362 7/28/84 Maryland
WBA-30	<u>Bryoandersonia illecebra</u> (Hedw.) Robins. 2 bags Brachytheciaceae	Moss on rock 8.00 lbs. (fresh, uncleaned)	SPJUT-8496 8/25/84 Tennessee
WBA-31*	<u>Thamnobryum alleghaniense</u> (C. Muell.) Nieuwl. 1 bag Neckeraceae	Moss on rock 0.75 lb. (fresh, uncleaned)	SPJUT-8499 8/25/84 North Carolina
WBA-32	<u>Stokesiella oregana</u> = <u>Kindbergia oregana</u> (Sull.) Brachytheciaceae	Ochyra Moss on soil 5.50 lbs.	EDSON-84-45 9/25/84 Oregon

WBA ACCESSION RECORD FOR DR. DAVID KINGSTON, VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY

WBA-33*	<u>Platismatia tuckermanii</u> (Oakes) Culb. & Culb. 1 bag Parmeliaceae	Lichen on stembark $\frac{1}{4}$ - $\frac{1}{2}$ lb.	SPJUT-8356 7/4/84 New Hampshire
WBA-34*	<u>Ramalina</u> sp. 1 bag Ramalinaceae	Lichen on stembark $\frac{1}{4}$ lb.	SPJUT-8484 8/16/84 Arizona
WBA-35*	<u>Xanthoparmelia taractica</u> (Kemp.) Hale 1 bag Parmeliaceae	Lichen on rock $\frac{1}{2}$ lb.	SPJUT-8486 8/20/84 Colorado
WBA-36*	<u>Usnea arizonica</u> Mot. 1 bag Usneaceae	Lichen on stembark $\frac{1}{4}$ lb.	SPJUT-8491 8/22/84 New Mexico
WBA-37*	<u>Pseudovernia intensa</u> Hale & W. Culb. 1 bag Parmeliaceae	Lichen on stembark $\frac{1}{2}$ lb.	SPJUT-8493 8/22/84 New Mexico
WBA-38*	<u>Peltigera polydactyla</u> (Neck.) Hoffm. 1 bag Peltigeraceae	Lichen on soil 2.50 lbs.	SPJUT-8414 8/2/84 Wisconsin
WBA-39*	<u>Peltigera canina</u> (L.) Willd. 1 bag Peltigeraceae	Lichen on soil 5.0 lbs (Half-dried)	SPJUT-8481 8/20/84 Arizona
WBA-40*	<u>Hormosira banksii</u> (Turner) Decainse 1 bag Hormosiraceae	Brown Alga (dried) on sand 4.0 lbs.	SPJUT & EDSON-7071 9/12/81 Western Australia
WBA-41	<u>Porotrichum bigelovii</u> (Sull.) Kindb. Neckeraceae	Moss on soil & rootbark 6.8 lbs.	EDSON-84-46 7/21/84 Oregon
WBA-42	<u>Amphidium californicum</u> (C. Muell.) Broth. Orthotrichaceae	Moss on rock 8.0 lbs.	EDSON-84-51 7/21/84 California
WBA-43*	<u>Hylocomium splendens</u> (Hedw.) B.S.G. Hylocomiaceae	Moss on rock face 2.6 lbs.	EDSON-84-61 8/16/84 Oregon

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INVOICE

EIN: 152131692501 SF37: X5XX2

October 1, 1985  
TO: Dr. Gordon M. Cragg, Ph.D.  
Natural Products Branch  
National Cancer Institute, NIH  
Bethesda, Maryland 20014

PURCHASE ORDER NO.: 263-MD-603213  
DATE OF SHIPMENT: November 12, 1985

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-67 1 bags(s)	<u>Parmotrema subsidiosum</u> (Muell. Arg.) Hale Parmeliaceae Lichen on Quercus sb	SPJ 8971 70	April 1, 1985 MARYLAND
WBA-68 1 bags(s)	<u>Parmelia rudecta</u> Ach. Parmeliaceae Lichen on Quercus sb	SPJ 8972 100 g	April 1, 1985 MARYLAND
WBA-69 1 bags(s)	<u>Pseudoparmelia caperata</u> (L.) Hale Parmeliaceae Lichen on Quercus sb	SPJ 8973 45 g	April 1, 1985 MARYLAND

WBA-70 1 bags(s)	<u>Parmotrema hypnotropum</u> (Nyl.) Hale Parmeliaceae Lichen on Quercus sb & tw	SPJ 8974 40 g	April 1, 1985 MARYLAND
WBA-71 1 bags(s)	<u>Parmelia subrudecta</u> Nyl. Parmeliaceae Lichen on Quercus sb	SPJ 8983 40 g	April 1, 1985 MARYLAND
WBA-72 1 bags(s)	<u>Peltigera membranacea</u> (Ach.) Nyl. Peltigeraceae Lichen on soil bank	S & E 8984 80	April 11, 1985 OREGON
WBA-73 1 bags(s)	<u>Sphaerophorus globosus</u> (Huds.) Vain Sphaerophoraceae Lichen on sb (Pinus contorta)	S & E 8989A 55 g	April 11, 1985 OREGON
WBA-74 1 bags(s)	<u>Peltigera polydactyla</u> (Neck.) Hoffm. Peltigeraceae Lichen on soil (sand)	S & E 8986 27 g	April 11, 1985 OREGON
WBA-75 1 bags(s)	<u>Peltigera aphthosa</u> (L.) Willd. Peltigeraceae Lichen on soil (sand)	S & E 8988 30 g	April 11, 1985 OREGON
* WBA-76 1 bags(s)	<u>Sphaerophorus globosus</u> (Huds.) Vain Sphaerophoraceae Lichen on sb (Abies grandis)	S & E 8989B 120 g	April 11, 1985 OREGON
WBA-77 1 bags(s)	<u>Ochrolechia tartarea</u> (L.) Mass. Lecanoraceae Lichen on sb (Pinus contorta)	S & E 8991 45 g	April 11, 1985 OREGON
WBA-78 1 bags(s)	<u>Pertusaria ophthalmiza</u> (Ach.) Duby Pertusariaceae Lichen on sb (Abies grandis)	S & E 8993 30 g	April 11, 1985 OREGON
WBA-79 1 bags(s)	<u>Coccotrema pocillarium</u> (Cumings) Brodo Pertusariaceae Lichen on sb (Abies grandis)	S & E 8994 45 g	April 11, 1985 OREGON

WBA-80 1 bags(s)	<u>Parmotrema arnoldii</u> (DR.) Hale Parmeliaceae Lichen on sb (Picea sitchensis)	S & E 8995 30 g	April 11, 1985 OREGON
WBA-81 1 bags(s)	<u>Usnea fulvorenagens</u> (Ras.) Ras. Usneaceae Lichen on sb (Alnus rubra)	S & E 8997 120 g	April 11, 1985 OREGON
* WBA-82 1 bags(s)	<u>Pertusaria ophthalmiza</u> (Ach.) Duby Pertusariaceae Lichen on sb (Alnus rubra)	S & E 8998 30 g	April 11, 1985 OREGON
WBA-83 1 bags(s)	<u>Lecanora pacifica</u> Tuck. Lecanoraceae Lichen on sb (Alnus rubra)	S & E 8999 30 g	April 11, 1985 OREGON
WBA-84 1 bags(s)	<u>Buellia disciformis</u> (Fr.) Mudd. Buelliaceae Lichen on sb (Alnus rubra)	S & E 9000 30 g	April 11, 1985 OREGON
WBA-85 1 bags(s)	<u>Graphina anguina</u> (Mont.) Muell. Arg. Graphidaceae Lichen on sb (Alnus rubra)	S & E 9001 25 g	April 11, 1985 OREGON
WBA-86 1 bags(s)	<u>Ochrolechia pallescens</u> (L.) Mass. Lecanoraceae Lichen on sb (Alnus rubra)	S & E 9002 25 g	April 11, 1985 OREGON
WBA-87 1 bags(s)	<u>Hypogymia enteromorpha</u> (Ach.) Nyl. Hypogymniaceae Lichen on sb (Alnus rubra)	S & E 9003 185 g	April 12, 1985 OREGON
WBA-88 1 bags(s)	<u>Hypogymnia inactiva</u> (Krog) Ohlss. Hypogymniaceae Lichen on sb (Pseudostuga menziesii)	S & E 9010 162 g	April 12, 1985 OREGON
WBA-89 1 bags(s)	<u>Menegazzia terebrata</u> (Hoffm.) Mass. Hypogymniaceae Lichen on sb (Alnus rubra)	S & E 9005 40 g	April 12, 1985 OREGON
WBA-90 1 bags(s)	<u>Pertusaria subambigua</u> Dibb. Pertusariaceae Lichen on sb (Abies amabilis)	S & E 9006 55 g	April 12, 1985 OREGON

WBA-91	<u>Lobaria oregana</u> (Muell. Arg.) Hale	S & E 9007	April 12, 1985
1 bags(s)	Lobariaceae Lichen on sb (Pseudostuga)	400 g	OREGON
WBA-92	<u>Pseudocyphellaria anomala</u> Magn.	S & E 9008	April 12, 1985
1 bags(s)	Lobariaceae Lichen on sb (Pseudostuga menziesii)	30 g	OREGON
WBA-93	<u>Platismatia stenophylla</u> (Tuck.) W. Culb. & C. Culb.	S & E 9009	April 12, 1985
1 bags(s)	Parmeliaceae Lichen on sb (Pseudostuga menziesii)	252 g	OREGON
* WBA-94	<u>Pertusaria subambigens</u> Dibb.	S & E 9011	April 12, 1985
1 bags(s)	Pertusariaceae Lichen on sb (Pseudostuga menziesii)	100 g	OREGON
WBA-95	<u>Pseudocyphellaria anthraxis</u> (Ach.) Magn.	S & E 9012	April 12, 1985
1 bags(s)	Lobariaceae Lichen on sb (Pseudostuga menziesii)	245 g	OREGON
WBA-96	<u>Lepraria sp.</u> no name for this chemical species	S & E 9013	April 12, 1985
1 bags(s)	Deuteromycetes Lichen on rock	85 g	OREGON
WBA-97	<u>Placopsis gelida</u> (L.) Linds.	S & E 9014	April 12, 1985
1 bags(s)	Trapeliaceae Lichen on rock	140 g	OREGON
WBA-98	<u>Platismatia glauca</u> (L.) W. Culb. & C. Culb.	S & E 9015	April 13, 1985
1 bags(s)	Parmeliaceae Lichen on sb (Pseudostuga menziesii)	200 g	OREGON
WBA-99	<u>Stereocaulon sp.</u>	S & E 9016	April 13, 1985
1 bags(s)	Stereocaulaceae Lichen on rock	145 g	OREGON
WBA-100	<u>Pilophoron aciculare</u> (Ach.) Nyl.	S & E 9017	April 13, 1985
1 bags(s)	Stereocaulaceae Lichen on rock	70 g	OREGON
WBA-101	<u>Platismatia herrei</u> (Imsh.) W. Culb. & C. Culb.	S & E 9021	April 13, 1985
1 bags(s)	Parmeliaceae Lichen on sb (Tsuga heterophylla)	90 g	OREGON
WBA-102	<u>Hypogymnia heterophylla</u> Pike	S & E 9022	April 13, 1985

1 bags(s)	Hypogymniaceae	Lichen on sb (Pinus contorta)	50 g	OREGON
WBA-103 1 bags(s)	<u>Cornicularia californica</u> (Tuck.) DR. Usneaceae	Lichen on tw (Pinus contorta)	S & E 9023 33 g	April 13, 1985 OREGON
WBA-104 1 bags(s)	<u>Niebla sp.</u> (undescribed) Ramalinaceae	Lichen on volcanic rock	S & M 9027A 32 g	April 29, 1985 MEXICO
WBA-105 1 bags(s)	<u>Lecanora aff. pinquils</u> Tuck. Lecanoraceae	Lichen on volcanic rock	S & M 9030 62 g	April 29, 1985 MEXICO
WBA-106 1 bags(s)	<u>Dirina catalinariae</u> Hasse f. sorediata Tehler Roccellaceae	Lichen on volcanic rock	S & M 9031 90 g	April 29, 1985 MEXICO
WBA-107 1 bags(s)	<u>Reinkella parishii</u> Hasse Roccellaceae	Lichen on volcanic rock	S & M 9033A 25 g	April 29, 1985 MEXICO
WBA-108 1 bags(s)	<u>Schizopelte californica</u> Th. Fr. Roccellaceae	Lichen on volcanic rock	S & M 9033B 50 g	April 29, 1985 MEXICO
WBA-109 1 bags(s)	<u>Niebla robusta</u> (Howe) Rundel & Bowler Ramalinaceae	Lichen on volcanic rock	S & M 9035 58 g	April 29, 1985 MEXICO
WBA-110 1 bags(s)	<u>Physcia nr biziana</u> (Mass.) Zahlbr. Physciaceae	Lichen on volcanic rock	S & M 9039 60 g	April 29, 1985 MEXICO
WBA-111 1 bags(s)	<u>Caloplaca cf. belacina</u> (Tuck.) Herre Teloschistaceae	Lichen on volcanic rock	S & M 9043 29 g	April 30, 1985 MEXICO
WBA-112 1 bags(s)	<u>Niebla sp.</u> (undescribed) cushion species. Ramalinaceae	Lichen on rock face	S & M 9045 175 g	April 30, 1985 MEXICO
WBA-113 1 bags(s)	<u>Niebla sp.</u> (undescribed) skinny "robusta" type Ramalinaceae	Lichen on rock face	S & M 9046 110 g	April 30, 1985 MEXICO



WBA-114	<u>Ramalina cf menziesii</u> Tayl.	S & M 9049	April 30, 1985
1 bags(s)	Ramalinaceae Lichen on tw ( <i>Idria columnaris</i> )	180 g	MEXICO
WBA-115	<u>Tephromeia atra</u> (Huds.)	S & M 9050	April 30, 1985
1 bags(s)	Lecanoraceae Lichen on rock sides & tops	55 g	MEXICO
WBA-116	<u>Ramalina farinacea</u> (L.) Ach.	S & M 9052	May 1, 1985
1 bags(s)	Ramalinaceae Lichen on tw (shrubs)	117 g	MEXICO
WBA-117	<u>Trichoramalina crinita</u> (Tuck.) Rundel & Bowler	S & M 9053	May 1, 1985
1 bags(s)	Ramalinaceae Lichen on tw (Fouquieriaceae)	60 g	MEXICO
WBA-118	<u>Niebla cf ceruchis</u> (Ach.) Rundel & Bowler	S & M 9054	May 1, 1985
bags(s)	Ramalinaceae Lichen on tw ( <i>Fouquieria diquetii</i> )	60 g	MEXICO
WBA-119	<u>Caloplaca aurantiaca</u> (Lightf.) Th. Fr.	S & M 9055	May 1, 1985
1 bags(s)	Teloschistaceae Lichen on sb & tw (Fouquieriaceae)	37 g	MEXICO
* WBA-120	<u>Physcia nr. biziana</u> Thoms.	S & M 9056	May 1, 1985
1 bags(s)	Physciaceae Lichen on rock	70 g	MEXICO
WBA-121	<u>Lecanora pinquii</u> Tuck.	S & M 9057	May 1, 1985
1 bags(s)	Lecanoraceae Lichen on rock	85 g	MEXICO
WBA-122	<u>Niebla sp.</u> (undescribed) rock 'ceruchis' type	S & M 9058	May 1, 1985
1 bags(s)	Ramalinaceae Lichen on rock	110 g	MEXICO
WBA-123	<u>Lecidea fumosa</u> (Hoffm.) Ach.	S & M 9059	May 1, 1985
1 bags(s)	Lecidiaceae Lichen on rock	44 g	MEXICO
WBA-124	<u>Roccella babingtonii</u> Mont.	S & M 9061	May 1, 1985
1 bags(s)	Roccellaceae Lichen on tb ( <i>Yucca vailida</i> )	215 g	MEXICO
WBA-125	<u>Dirina catillinae</u> Hasse	S & M 9062	May 1, 1985
2 bags(s)	Roccellaceae Lichen on rock	118 g	MEXICO

WBA-126	<u>Roccella babingtonii</u> Mont.	S & M 9071	May 1, 1985
1 bags(s)	Roccellaceae Lichen on tw (Pachycormus discolor)	185 g	MEXICO
WBA-127	<u>Schismatomma hypothallinum</u> (Zahlbr.) Hasse	S & M 9034	April 29, 1985
1 bags(s)	Opogonaceae Lichen on volcanic rock	300 g	MEXICO
WBA-128	<u>Niebla combeoides</u> (Nyl.) Rundel & Bowler	S & M 9074	May 2, 1985
1 bags(s)	Ramalinaceae Lichen on rock.	180 g	MEXICO
WBA-129	<u>Niebla</u> sp. (undescribed) form with black spots & bands	S & M 9075	May 2, 1985
1 bags(s)	Ramalinaceae Lichen on tw (Jatropha)	140 g	MEXICO
WBA-130	<u>Niebla cephalota</u> (Tuck.) Rundel & Bowler	S & M 9076	May 2, 1985
1 bags(s)	Ramalinaceae Lichen on sb (Idria columnaris)	75 g	MEXICO
WBA-131	<u>Roccella fimbriata</u>	S & M 9038	April 29, 1985
1 bags(s)	Roccellaceae Lichen on volcanic rock	275 g	MEXICO
WBA-132	<u>Teloschistes chrysophthalmus</u> (L.) Th. Fr.	S & M 9080	May 3, 1985
1 bags(s)	Teloschistaceae Lichen on tw (Cercidium)	62 g	MEXICO
WBA-133	<u>Heterodermia</u> sp.	S & M 9081	May 3, 1985
1 bags(s)	Physciaceae Lichen on tw (Cercidium)	25 g	MEXICO
WBA-134	<u>Heterodermia erinacea</u> (Ach.) Hale	S & M 9082	May 3, 1985
1 bags(s)	Physciaceae Lichen on tw (shrubs)	50 g	MEXICO
WBA-135	<u>Umbilicaria vellea</u> (L.) Ach.	S & M 9083	May 4, 1985
1 bags(s)	Umbilicariaceae Lichen on rock	86 g	MEXICO
WBA-136	<u>Lassalia papuosa</u> (Ach.) Llano	S & M 9084	May 4, 1985
1 bags(s)	Umbilicariaceae Lichen on rock	130 g	MEXICO
WBA-137	<u>Physcia caesia</u> (Hoffm.) Hampe	S & M 9087B	May 4, 1985

1 bags(s)	Physciaceae	Lichen on rock	50 g	MEXICO
WBA-138	<del>Leptogium cf. rugosum</del>	<i>Leptogium (Hessl.)</i>	S & M 9088	May 4, 1985
1 bags(s)	Collemaaceae	Lichen on rock	50 g	MEXICO
WBA-139	<u>Rhizoplaca chrysoleuca</u>	(Sm.) Leuck. & Poelt.	S & M 9089	May 4, 1985
1 bags(s)	Lecanoraceae	Lichen on rock	50 g	MEXICO
WBA-140	<u>Umbilicaria nr virginis</u>	Schaer.	S & M 9094	May 5, 1985
1 bags(s)	Umbilicariaceae	Lichen on rock	48 g	MEXICO
WBA-141	<u>Xanthoparmelia taractica</u>	(Krempfh.) Hale	S & M 9095	May 5, 1985
1 bags(s)	Parmeliaceae	Lichen on rock	84 g	MEXICO
WBA-142	<u>Xanthoparmelia mexicana</u>	(Gyél.) Hale	S & M 9040	April 29, 1985
1 bags(s)	Parmeliaceae	Lichen on volcanic rock	85 g	MEXICO
WBA-143	<u>Melanella disjuncta</u>		S & M 9097	May 5, 1985
1 bags(s)	Parmeliaceae	Lichen on rock	100 g	MEXICO
WBA-144	<u>Dermatocarpon moulinsii</u>	(Mont.) Zahlbr.	S & M 9098	May 5, 1985
1 bags(s)	Verrucariaceae	Lichen on rock	30 g	MEXICO
WBA-145	<u>Usnea cavernosa</u>	Tuck.	S & M 9100	May 5, 1985
1 bags(s)	Usneaceae	Lichen on tw (Pinus)	120 g	MEXICO
WBA-146	<u>Melanella disjuncta</u>	(Erichs.) Essl.	S & M 9101	May 5, 1985
1 bags(s)	Parmeliaceae	Lichen on rock	129 g	MEXICO
WBA-147	<u>Xanthoria candelaria</u>	(L.) Th. Fr.	S & M 9102	May 5, 1985
1 bags(s)	Teloschistaceae	Lichen on rock	90 g	MEXICO
WBA-148	<u>Xanthoparmelia australasica</u>	Galloway	S & M 9103A	May 5, 1985
1 bags(s)	Parmeliaceae	Lichen on rock	104 g	MEXICO

* WBA-149	<u>Xanthoparmelia mexicana</u> (Gyel.) Hale	S & M 9103B	May 5, 1985
1 bags(s)	Parmeliaceae Lichen on rock	60 g	MEXICO
* WBA-150	<u>Pseudocyphellaria anomala</u> Magn.	S & E 9106	May 25, 1985
bags(s)	Lobariaceae lichen on bb of oak (Quercus)	50 g	OREGON
* WBA-151	<u>Platismatia glauca</u> (L.) W. Culb. & C. Culb.	S & E 9107	May 25, 1985
1 bags(s)	Parmeliaceae lichen on bb (Pseudostuga)	50 g	OREGON
WBA-152	<u>Lobaria scrobiculata</u> (Scop.) DC.	S & E 9108	May 25, 1985
1 bags(s)	Lobariaceae lichen on bb (Quercus garryana)	45 g	OREGON
* WBA-153	<u>Platismatia herrei</u> (Imsh.) W. Culb. & C. Culb.	S & E 9109	May 25, 1985
1 bags(s)	Parmeliaceae lichen on dead bb (Pinus sp.)	60 g	OREGON
WBA-154	<u>Ramalina menziesii</u> Tayl.	S & E 9110	May 25, 1985
1 bags(s)	Ramalinaceae lichen on tw (Pseudostuga)	50 g	OREGON
WBA-155	<u>Ramalina subleptocarpa</u> Rundel & Bowler	S & E 9111	May 25, 1985
1 bags(s)	Ramalinaceae lichen on dead bb (Pinus sp.)	53 g	OREGON
WBA-156	<u>Ramalina farinacea</u> (L.) Ach.	S & E 9112A	May 25, 1985
1 bags(s)	Ramalinaceae lichen on dead bb (Pinus sp.)	70 g	OREGON
WBA-157	<u>Parmelia sulcata</u> Tayl.	S & E 9114	May 25, 1985
1 bags(s)	Parmeliaceae lichen on bb (Quercus garryana)	95 g	OREGON

TOTALS: 91 samples representing 83 species at \$60 per species..... \$4,980

ABBREVIATIONS:

SPJ = R. W. Spjut

WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
Laurel, MD 20708-0829  
EIN: 152131692501 SF37: X5XX6  
(301) 498-5067

ACCESSION AND INVOICE RECORD

November 14, 1985

TO: Dr. Gordon M. Cragg, Ph.D  
Natural Products Branch  
National Cancer Institute, NIH  
Bethesda, Maryland 20205

PURCHASE ORDER NO.

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-158 1 bags(s)	<u>Lobaria pulmonaria</u> (L.) Hoffm. Lobariaceae lichen on bb (Quercus garryana)	S & E 9115 72 g	May 25, 1985 OREGON
WBA-159 1 bags(s)	<u>Usnea subfloridana</u> Stirt. Usneaceae lichen on bb (Quercus garryana)	S & E 9116 135 g	May 25, 1985 OREGON
WBA-160 1 bags(s)	<u>Usnea dasypoga</u> (Ach.) Nyl. Usneaceae lichen on bb (Quercus garryana)	S & E 9117 40 g	May 25, 1985 OREGON
WBA-161 1 bags(s)	<u>Parmotrema perlatum</u> (Huds.) Choisy Parmeliaceae lichen on sb (Picea sitchensis)	S & E, 9122 65 g	May 26, 1985 OREGON
WBA-162 1 bags(s)	<u>Lepraria finkii</u> (B. de Lesd. In Hue) Ined. Leprariaceae lichen on moss (Alsia) on alder	S & E 9123 65 g	May 26, 1985 OREGON
* WBA-163 1 bags(s)	<u>Peltigera polydactyla</u> (Neck.) Hoffm. Peltigeraceae lichen on moss over rock	S & E 9125 45 g	May 26, 1985 OREGON

WORLD BOTANICAL ASSOCIATES ACCESSION RECORD

WBA-164	<u>Peltigera leucophlebia</u> (Nyl.) Gyel.	S & E 9127	May 27, 1985
1 bags(s)	Peltigeraceae lichen on moss over rock	40 g	OREGON
WBA-165	<u>Nephroma resupinatum</u> (L.) Ach.	S & E 9128	May 27, 1985
1 bags(s)	Peltigeraceae lichen on moss on sb ( <u>Acer circinatum</u> )	60 g	OREGON
WBA-166	<u>Cladonia cornuta</u> (L.) Hoffm.	S & E 9130	May 27, 1985
1 bags(s)	Cladoniaceae lichen on rock	135 g	OREGON
* WBA-167	<u>Peltigera apthosa</u> (L.) Willd.	S & E 9131	May 27, 1985
1 bags(s)	Peltigeraceae lichen on moss over rock	40 g	OREGON
WBA-168	<u>Umbilicaria hyperborea</u> (Ach.) Ach.	S & E 9132	May 27, 1985
1 bags(s)	Umbilicariaceae lichen on rock (lava)	35 g	OREGON
WBA-169	<u>Alectoria sarmentosa</u> (Ach.) Ach.	S & E 9133	May 27, 1985
1 bags(s)	Usneaceae lichen on bb ( <u>Pseudostuga</u> )	90 g	OREGON
WBA-170	<u>Cladonia bellidiflora</u> (Ach.) Schaer.	S & E 9134	May 27, 1985
1 bags(s)	Cladoniaceae lichen on rock (lava).	130 g	OREGON
WBA-171	<u>Stereocaulon</u> sp.	S & E 9135	May 27, 1985
1 bags(s)	Stereocaulaceae lichen on rock (lava)	165 g	OREGON
* WBA-172	<u>Alectoria sarmentosa</u> (Ach.) Ach.	S & E 9184	May 30, 1985
1 bags(s)	Alectoriaceae lichen on bb ( <u>Taxus brevifolia</u> )	117 g	OREGON
* WBA-173	<u>Lobaria pulmonaria</u> (L.) Hoffm.	S & E 9138	May 27, 1985
1 bags(s)	Lobariaceae lichen on tb ( <u>Acer macrophyllum</u> )	500 g	OREGON
WBA-174	<u>Nephroma helveticum</u> (Ach.) Ach.	S & E 9139	May 27, 1985
1 bags(s)	Peltigeraceae lichen on sb ( <u>Acer circinatum</u> )	50 g	OREGON
WBA-175	<u>Sticta limbata</u> (Sm.) Ach.	S & E 9140	May 27, 1985
1 bags(s)	Lobariaceae lichen on sb ( <u>Acer circinatum</u> )	55 g	OREGON
WBA-176	<u>Nephroma laevigata</u> Ach.	S & E 9142	May 27, 1985
1 bags(s)	Peltigeraceae lichen on sb ( <u>Acer circinatum</u> )	90 g	OREGON

WBA-177	<u>Stereocaulon</u> sp.	S & E 9144	May 27, 1985
1 bags(s)	Stereocaulaceae lichen on soil	135 g	OREGON
WBA-178	<u>Lepraria</u> sp.	S & E 9146	May 28, 1985
1 bags(s)	Leprariaceae lichen on moss over rock	50 g	OREGON
* WBA-179	<u>Umbilicaria hyperborea</u> (Ach.) Ach.	S & E 9147	May 28, 1985
1 bags(s)	Umbilicariaceae lichen on rock (limestone)	25 g	OREGON
WBA-180	<u>Physcia phaea</u> (Tuck.) Thoms.	S & E 9149A	May 28, 1985
1 bags(s)	Physciaceae lichen on rock (limestone)	80 g	OREGON
WBA-181	<u>Leptogium californicum</u> Tuck.	S & E 9151B	May 28, 1985
1 bags(s)	Collemaataceae lichen on moss over rock	85 g	OREGON
WBA-182	<u>Letharia columbiana</u> (Nutt.) Thoms.	S & E 9153	May 28, 1985
1 bags(s)	Usneaceae lichen on dead bb (Juniperus)	190 g	OREGON
WBA-183	<u>Rhizoplaca melanophthalma</u> (Ram.) Leuck.	S & E 9156	May 28, 1985
1 bags(s)	Lecanoraceae lichen on rock	130 g	OREGON
WBA-184	<u>Peltigera collina</u> (Ach.) Ach.	S & E 9157	May 28, 1985
1 bags(s)	Peltigeraceae lichen on moss over rock & tb	45 g	OREGON
WBA-185	<u>Physconia enteroxantha</u> (Nyl.) Poelt	S & E 9160	May 28, 1985
1 bags(s)	Physciaceae lichen on rock	58 g	OREGON
WBA-186	<u>Letharia vulpina</u> (L.) Hue	S & E 9105	May 22, 1985
bags(s)	Usneaceae lichen on dead bb (Juniperus)	70 g	OREGON
* WBA-187	<u>Parmelia sulcata</u> Tayl.	S & E 9161B	May 28, 1985
1 bags(s)	Parmeliaceae lichen on moss over rock	75 g	OREGON
WBA-188	<u>Umbilicaria vellea</u> (L.) Ach.	S & E 9163	May 28, 1985
1 bags(s)	Umbilicariaceae lichen on moss over rock	130 g	OREGON
WBA-189	<u>Caloplaca trachyphylla</u> (Tuck.) Zahlbr.	S & E 9164	May 28, 1985
1 bags(s)	Teloschistaceae lichen on rock (limestone)	67 g	OREGON

WBA-190	<u>Acarospora chlorophana</u> (Ach.) Mass. Acarosporaceae lichen on rock (limestone)	S & E 9165 55 g	May 28, 1985 OREGON
WBA-191	<u>Umbilicaria</u> sp. Umbilicariaceae lichen on rock (limestone)	S & E 9166 50 g	May 28, 1985 OREGON
* WBA-192	<u>Umbilicaria hyperborea</u> (Ach.) Ach. Umbilicariaceae lichen on rock (limestone)	S & E 9169A 35 g	May 28, 1985 OREGON
WBA-193	<u>Omphalodiscus krascheninnikovii</u> (Sav.) Schol. Umbilicariaceae lichen on rock (limestone)	S & E 9170 38 g	May 28, 1985 OREGON
WBA-194	<u>Xanthoparmelia cf. cumberlandia</u> (Gyel.) Hale Parmeliaceae lichen on rock	S & E 9113 100 g	May 25, 1985 OREGON
WBA-195	<u>Dermatocarpon miniatum</u> (L.) Mann Verrucariaceae lichen on rock	S & E 9176 90 g	May 30, 1985 OREGON
WBA-196	<u>Cetraria merrillii</u> DR. Parmeliaceae lichen on dead bb (Pinus ponderosa)	S & E 9177 80 g	May 30, 1985 OREGON
WBA-197	<u>Melanelia multispora</u> (Schneid) Essl. Parmeliaceae lichen on dead bb (Cercocarpus)	S & E 9178 50 g	May 30, 1985 OREGON
WBA-198	<u>Xanthoria fallax</u> (Hepp) Arn. Teloschistaceae lichen on rock	S & E 9179 55 g	May 30, 1985 OREGON
WBA-199	<u>Psora</u> sp. Lecidiaceae lichen on rock	S & E 9180 85 g	May 30, 1985 OREGON
WBA-200	<u>Lecidea tessellata</u> (Ach.) Florke Lecidiaceae lichen on rock	S & E 9182 87 g	May 30, 1985 OREGON
WBA-201	<u>Diploschistes scruposus</u> (Schreb.) Nordin Thelotremaaceae lichen on rock	S & E 9183 44 g	May 30, 1985 OREGON
WBA-202	<u>Niebla aff. testudinaria</u> (Nyl.) Ramalinaceae lichen on rock.	S & M 9073 55 g	May 2, 1985 MEXICO



## WORLD BOTANICAL ASSOCIATES ACCESSION RECORD

WBA-203	<u>Cetraria merrillii</u> DR.	S & E 9185A	May 31, 1985
1 bags(s)	Parmeliaceae lichen on dead bb (Arctostaphylos)	90 g	OREGON
WBA-204	<u>Hypogymnia imshaugii</u> Krog	S & E 9186	May 31, 1985
1 bags(s)	Hypogymniaceae lichen on dead bb (Arctostaphylos)	55 g	OREGON
WBA-205	<u>Evernia prunastri</u> (L.) Ach.	S & E 9187	May 31, 1985
1 bags(s)	Usneaceae lichen on bb (Quercus garryana)	104 g	OREGON
* WBA-206	<u>Parmelia sulcata</u> Tayl.	S & E 9189	May 31, 1985
1 bags(s)	Parmeliaceae lichen on moss over bb (Quercus)	85 g	OREGON
* WBA-207	<u>Nephroma helveticum</u> (Ach.) Ach.	S & E 9190	May 31, 1985
1 bags(s)	Peltigeraceae lichen on moss over bb (Quercus)	63 g	OREGON
WBA-208	<u>Physconia pulverulenta</u> (Schreb.) Poelt	S & E 9191	May 31, 1985
1 bags(s)	Physciaceae lichen on moss over bb (Quercus)	51 g	OREGON
* WBA-209	<u>Hypogymnia enteromorpha</u> (Ach.) Nyl.	S & E 9193	June 1, 1985
1 bags(s)	Hypogymniaceae lichen on bb (Pseudostuga menziesii)	90 g	CALIFORNIA
WBA-210	<u>Parmelia saxatilis</u> (L.) Ach.	S & E 9194	June 1, 1985
1 bags(s)	Parmeliaceae lichen on moss over rock.	200 g	CALIFORNIA
WBA-211	<u>Peltigera canina</u> (L.) Willd.	S & E 9195B	June 1, 1985
1 bags(s)	Peltigeraceae lichen on moss over rock.	25 g	CALIFORNIA
* WBA-212	<u>Hypogymnia imshaugii</u> Krog	S & E 9196	June 1, 1985
2 bags(s)	Hypogymniaceae lichen on bb (Abies concolor)	125 g	CALIFORNIA
WBA-213	<u>Pseudoephebe pubescens</u> (L.) Choisy	S & E 9197	June 1, 1985
1 bags(s)	Lichinaceae lichen on rock	30 g	CALIFORNIA
* WBA-214	<u>Peltigera polydactyla</u> (Neck.) Hoffm.	S & E 8987	April 11, 1985
1 bags(s)	Peltigeraceae lichen on soil	47 g	OREGON
WBA-215	<u>Parmelia crinitum</u> (Ach.) Choisy	S & E 9121	May 26, 1985
1 bags(s)	Parmeliaceae lichen on tb & bb (Picea sitchensis)	60 g	OREGON

WORLD BOTANICAL ASSOCIATES ACCESSION RECORD

WBA-216 1 bags(s)	<u>Endocarpon pulvinatum</u> Th. Fr. Verrucariaceae lichen on rock	S & E 9158 85 g	May 28, 1985 OREGON
WBA-217 1 bags(s)	<u>Physcia</u> sp. (undescribed) long ciliate form on rock Physciaceae lichen on rock	S & M 9066 118 g	May 1, 1985 MEXICO
WBA-218 1 bags(s)	<u>Thyrea nigritella</u> Lett. Lichiniaceae lichen on rock	S & M 9067 50 g	May 1, 1985 MEXICO
WBA-219 1 bags(s)	<u>Niebla aff. combeoides</u> (Nyl.) Rundel & Bowler Ramalinaceae lichen on rock	S & M 9069 120 g	May 1, 1985 MEXICO
WBA-220 1 bags(s)	<u>Dendrographa leucophaea</u> (Tuck.) Darb. Roccellaceae lichen on tw (Lycium sp.)	S & M 9070A 200 g	May 1, 1985 MEXICO
WBA-221 1 bags(s)	<u>Chrysothrix chlorina</u> (Ach.) Laundon Leprariaceae lichen on rock	S & E 9120 50 g	May 25, 1985 OREGON

SUBTOTAL: 64 samples representing 52 species

ABBREVIATIONS:

SPJ = R. W. Spjut

S & E = R. W. Spjut & C. F. Edson

S & M = R. W. Spjut & R. Marin

sb = stembark (in general), tb = trunkbark, bb = branchbark, tw = twig

\* = Duplicate species but samples collected from different habitats

WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
Laurel, MD 20708-0829  
EIN: 152131692501 SF37: XSXX6  
(301) 498-5067

ACCESSION AND INVOICE RECORD

November 14, 1985

TO: Dr. Gordon M. Cragg, Ph.D  
Natural Products Branch  
National Cancer Institute, NIH  
Bethesda, Maryland 20205

PURCHASE ORDER NO. 263--MD-605732

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-229 1 bags(s)	<u>Xanthoparmelia cf cumberlandia</u> (Gyel.) Hale Parmeliaceae lichen on rock	S & E 9210 35 g	June 1, 1985 CALIFORNIA
* WBA-230 1 bags(s)	<u>Hypogymnia lmschaugii</u> Krog Hypogmniaceae lichen on tb & bb (Castanopsis)	S & E 9214 30 g	June 2, 1985 CALIFORNIA
WBA-231 1 bags(s)	<u>Psoroma hypnorum</u> (Vahl.) S. Gray Pannariaceae lichen on moss (Dryptodon patens)	S & E 9216 50 g	June 2, 1985 OREGON
* WBA-232 1 bags(s)	<u>Parmelia saxatilis</u> (L.) Ach. Parmeliaceae lichen on rock	S & E' 9218 78 g	June 2, 1985 OREGON

WORLD BOTANICAL ASSOCI. IS ACCESSION RECORD

WBA-233 1 bags(s)	<u>Cetraria platyphylla</u> Tuck. Parmeliaceae lichen on lichens over bb	S & E 9219 47 g	June 2, 1985 OREGON
WBA-234 1 bags(s)	<u>Umbilicaria polyphylla</u> (L.) Baumg. Umbilicariaceae lichen on rock	S & E 9220 65 g	June 2, 1985 OREGON
WBA-235 1 bags(s)	<u>Actinogyra polyrhiza</u> (L.) Schol. Umbilicariaceae lichen on rock	S & E 9221 100 g	June 2, 1985 OREGON
*WBA-236 1 bags(s)	<u>Cornicularia californica</u> (Tuck.) DR. Alectoriaceae lichen on bb (Arctostaphylos)	S & E 9224 70 g	June 2, 1985 OREGON
WBA-237 1 bags(s)	<u>Cetraria idahoensis</u> Essl. Parmeliaceae lichen on tb (Pseudostuga menziesii)	S & E 9226 70 g	June 3, 1985 OREGON
*WBA-238 1 bags(s)	<u>Parmelia sulcata</u> Tayl. Parmeliaceae lichen on tb (Quercus)	S & E 9228 80 g	June 3, 1985 OREGON
WBA-239 1 bags(s)	<u>Parmotrema reticulatum</u> (Tayl.) Choisy Parmeliaceae lichen on sb (Alnus)	SPJ 9231A 56 g	June 29, 1985 TENNESSEE
WBA-240 1 bags(s)	<u>Cetraria ciliaris</u> Ach. Parmeliaceae lichen on tw (Pinus taeda)	SPJ 9232 40 g	June 29, 1985 TENNESSEE
*WBA-241 1 bags(s)	<u>Pseudoparmelia caperata</u> (L.) Hale Parmeliaceae lichen on tw (Pinus taeda)	SPJ 9233A 70 g	June 29, 1985 TENNESSEE
*WBA-242 1 bags(s)	<u>Parmelia rudecta</u> Ach. Parmeliaceae lichen on tw (Pinus taeda)	SPJ 9235 66 g	June 29, 1985 TENNESSEE
WBA-243 1 bags(s)	<u>Usnea strigosa</u> (group) Usneaceae lichen on tw (Betula)	SPJ 9237 60 g	June 29, 1985 TENNESSEE

WORLD BOTANICAL ASSOCIATES ACCESSION RECORD

WBA-244 1 bags(s)	<u>Pseudoparmelia baltimorensis</u> (Gyeli. & For.) Hale Parmeliaceae	lichen on tw (Betula)	SPJ 9238 75 g	June 29, 1985 TENNESSEE
WBA-245 1 bags(s)	<u>Parmotrema perforatum</u> (Jacq.) Mass. Parmeliaceae	lichen on sb	SPJ 9240B 30 g	June 29, 1985 NORTH CAROLINA
* WBA-246 1 bags(s)	<u>Cetraria ciliaris</u> Parmeliaceae	lichen on sb (Carya)	SPJ 9242 41 g	June 30, 1985 NORTH CAROLINA
WBA-247 1 bags(s)	<u>Parmelina aurulenta</u> (Tuck.) Hale Parmeliaceae	lichen on sb (Carya)	SPJ 9243 25 g	June 30, 1985 NORTH CAROLINA
WBA-248 2 bags(s)	<u>Platismatia tuckermanii</u> (Oakes) Culb. & Culb. Parmeliaceae	lichen on dead tw (Rhododendron)	SPJ 9246 69 g	June 30, 1985 NORTH CAROLINA
* WBA-249 1 bags(s)	<u>Lobaria pulmonaria</u> (L.) Hoffm. Lobariaceae	lichen on sb (Quercus)	SPJ 9247 60 g	June 30, 1985 NORTH CAROLINA
WBA-250 1 bags(s)	<u>Lobaria quercizans</u> Michx. Lobariaceae	lichen on sb (Quercus)	SPJ 9248 90 g	June 30, 1985 NORTH CAROLINA
WBA-251 1 bags(s)	<u>Hypogymnia physodes</u> (L.) Nyl. Hypogymniaceae	lichen on dead tw (Rhododendron)	SPJ 9249 30 g	June 30, 1985 NORTH CAROLINA
WBA-252 1 bags(s)	<u>Cetraria oakesiana</u> Tuck. Parmeliaceae	lichen on dead tw (Rhododendron)	SPJ 9250 38 g	June 30, 1985 NORTH CAROLINA
WBA-253 1 bags(s)	<u>Sticta weigelii</u> (Ach.) Vain. Lobariaceae	lichen on dead tw	SPJ 9251 55 g	June 30, 1985 NORTH CAROLINA
WBA-254 1 bags(s)	<u>Pseudocyphellaria crocata</u> (L.) Vain. Lobariaceae	lichen on dead tw	SPJ 9252 25 g	June 30, 1985 NORTH CAROLINA

WORLD BOTANICAL ASSOCIATES ACCESSION RECORD

* WBA-255	<u>Nephroma helveticum</u> (Ach.) Ach.	SPJ 9254	June 30, 1985
1 bags(s)	Peltigeraceae lichen on dead tw (Rhododendron)	25 g	NORTH CAROLINA
WBA-256	<u>Parmotrema austrosinense</u> (Zahlbr.) Hale	SPJ 9255	June 30, 1985
1 bags(s)	Parmeliaceae lichen on sb (Quercus & Carya)	30 g	NORTH CAROLINA
WBA-257	<u>Cetrelia chictae</u> (Culb.) Culb. & Culb.	SPJ 9258	June 30, 1985
1 bags(s)	Parmeliaceae lichen on sb (Quercus & Carya)	40 g	NORTH CAROLINA
* WBA-258	<u>Pseudoparmelia baltimorensis</u> (Gyel. & For.) Hale	SPJ 9267	June 29, 1985
1 bags(s)	Parmeliaceae lichen on rock	52 g	NORTH CAROLINA
WBA-259	<u>Xanthoparmelia cumberlandia</u> (Gyel.) Hale	SPJ 9268	June 29, 1985
1 bags(s)	Parmeliaceae lichen on rock	30 g	NORTH CAROLINA
WBA-260	<u>Cladonia furcata</u> (Huds.) Schrad.	SPJ 9272	June 29, 1985
1 bags(s)	Cladoniaceae lichen on moss (Thuidium erectum)	130 g	NORTH CAROLINA
WBA-261	<u>Pannaria rubiginosa</u> (Thunb.) Del.	SPJ 9273	June 29, 1985
1 bags(s)	Pannariaceae lichen on sb (Acer)	30 g	TENNESSEE
WBA-262	<u>Lassallia papuosa</u> (Ach.) Llano	SPJ 9274	July 01, 1985
1 bags(s)	Umbilicariaceae lichen on rock	58 g	GEORGIA
WBA-263	<u>Cladina subtenuis</u> (Abb.) Hale & Culb.	SPJ 9275	July 01, 1985
1 bags(s)	Cladoniaceae lichen on soil	99 g	GEORGIA
WBA-264	<u>Cladina evansii</u> (Abb.) Hale & Culb.	SPJ 9278	July 01, 1985
1 bags(s)	Cladoniaceae lichen on soil (sand)	150 g	FLORIDA
WBA-265	<u>Cladonia leporina</u> Fr.	SPJ 9279	July 01, 1985
1 bags(s)	Cladoniaceae lichen on soil (sand)	90 g	FLORIDA

WORLD BOTANICAL ASSOCIATION \ ACCESSION RECORD

* WBA-266	<u>Cladina subtenulis</u> (Abb.) Hale & Culb.	SPJ 9280	July 01, 1985
1 bags(s)	Cladoniaceae lichen on soil (sand)	122 g	FLORIDA
WBA-267	<u>Parmotrema cristiferum</u> (Tayl.) Hale	SPJ 9281	July 01, 1985
1 bags(s)	Parmeliaceae lichen on tb	53 g	FLORIDA
WBA-268	<u>Chiodecton sanguineum</u> (Sw.) Vain.	SPJ 9285	July 01, 1985
1 bags(s)	Chiodectonaceae lichen on sb (Quercus)	30 g	FLORIDA
WBA-269	<u>Cladonia</u> sp. squamulose & sterile	SPJ 9303	August 3, 1985
1 bags(s)	Cladoniaceae lichen on sb	25 g	MARYLAND
WBA-270	<u>Heterodermia</u> sp.	SPJ 9304	August 3, 1985
1 bags(s)	Physciaceae lichen on sb	45 g	MARYLAND

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SUBTOTAL: 42 samples representing 31 species

ABBREVIATIONS:

SPJ = R. W. Spjut

S & E = R. W. Spjut & C. F. Edson

S & M = R. W. Spjut & R. Marin

sb = stembark (in general), tb = trunkbark, bb = branchbark, tw = twig

WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
Laurel, MD 20708-0829

INVOICE

October 28, 1985

TO: Dr. Matthew Suffness, Chief  
Natural Products Branch  
National Cancer Institute, NIH  
Bethesda, Maryland 20205

PURCHASE ORDER NO. 263-AD-S50014

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-272 1 bags(s)	<u>Pseudocyphellaria anomala</u> Magn. Lobariaceae lichen on moss ( <u>Orthotrichum lyellii</u> ) over sb	S & E 9198	June 1, 1985 CALIFORNIA
WBA-273 1 bags(s)	<u>Nephroma helveticum</u> (Ach.) Ach. Peltigeraceae lichen on moss ( <u>Orthotrichum lyellii</u> ) over sb	S & E 9199	June 1, 1985 CALIFORNIA
WBA-274 1 bags(s)	<u>Nephroma resupinatum</u> (L.) Ach. Peltigeraceae lichen on moss ( <u>Orthotrichum lyellii</u> ) over sb	S & E 9200B	June 1, 1985 CALIFORNIA
WBA-275 1 bags(s)	<u>Pseudocyphellaria anthrapsis</u> (Ach.) Gall. & James Lobariaceae lichen on moss ( <u>Orthotrichum lyellii</u> ) over sb	S & E 9201	June 1, 1985 CALIFORNIA

TOTAL: \$250.00

Samples shipped October 28 (1985) to:

Dr. David G. I. Kingston, Professor of Chemistry  
Virginia Polytechnic Institute & State University  
Department of Chemistry  
Blacksburg, Virginia 24061



WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
Laurel, MD 20708-0829  
EIN: 152131692501 SF37: XSXX6  
(301) 498-5067

ACCESSION AND INVOICE RECORD

February 8, 1986

TO: National Institutes of Health  
Accounts Payable Section, DFM  
Building 31, Room B1B-10  
Bethesda, Maryland 20205

SAMPLES SHIPPED 02/08/86 TO:

Dr. Gordon M. Cragg, Ph.D  
Natural Products Branch  
National Cancer Institute, NIH  
7910 Woodmont Avenue

PURCHASE ORDER NO. 263-MD-611135

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-276 1 bags(s)	<u>Lecanora</u> sp. Lecanoraceae Lichen on volcanic rock	S & M 9028 25 g	April 29, 1985 MEXICO
WBA-277 1 bags(s)	<u>Niebla homalea</u> (Ach.) Rundel & Bowler Ramalinaceae Lichen on volcanic rock	S & M 9032C 58 g	April 29, 1985 MEXICO
WBA-278* 1 bags(s)	<u>Roccella fimbriata</u> Darb. Roccellaceae Lichen on volcanic rock	S & M 9036 180 g	April 29, 1985 MEXICO
WBA-279* 1 bags(s)	<u>Roccella fimbriata</u> Darb. Roccellaceae Lichen on rock	S & M 9064 240 g	May 1, 1985 MEXICO

WBA-280*	<u>Umbilicaria hyperborea</u> (Ach.) Ach.	S & M 9085A	May 4, 1985
1 bags(s)	Umbilicariaceae Lichen on rock	60 g	MEXICO
WBA-281	<u>Lassalia pensylvanica</u> (Hoffm.) Liano	S & M 9085B	May 4, 1985
1 bags(s)	Umbilicariaceae Lichen on rock	50 g	MEXICO
WBA-282*	<u>Melanelia cf disjuncta</u> (Erichs.) Essl.	S & M 9086A	May 4, 1985
1 bags(s)	Parmeliaceae Lichen on rock	25 g	MEXICO
WBA-283*	<u>Melanelia cf disjuncta</u> (Erichs.) Essl.	S & M 9086B	May 4, 1985
1 bags(s)	Parmeliaceae Lichen on rock	36 g	MEXICO
WBA-284	<u>Melanelia subargentifera</u> (Nyl.) Essl.	S & M 9090	May 4, 1985
1 bags(s)	Parmeliaceae Lichen on rock	25 g	MEXICO
WBA-285*	<u>Psora</u> sp.	S & M 9099	May 28, 1985
1 bags(s)	Lecidiaceae lichen on rock	250 g	MEXICO
WBA-286	<u>Lobaria</u> sp. (undescribed)	S & E 9018	April 15, 1985
1 bags(s)	Lobariaceae Lichen on moss over tb (Douglas fir)	70 g	OREGON
WBA-287	<u>Peltigera collina</u> (Ach.) Ach.	S & E 9129	May 27, 1985
1 bags(s)	Peltigeraceae lichen on moss over rock	38 g	OREGON
WBA-288*	<u>Pseudocyphellaria anthrapsis</u> (Ach.) Gall. & James	S & E 9137A	May 27, 1985
1 bags(s)	Lobariaceae lichen on sb (Acer circinatum)	57 g	OREGON
WBA-289	<u>Cladonia</u> sp.	S & E 9145	May 27, 1985
1 bags(s)	Cladoniaceae lichen on rock (lava)	25 g	OREGON
WBA-290	<u>Collema tenax</u> (Sw.) Ach.	S & E 9150	May 28, 1985
1 bags(s)	Collemataceae lichen on rock (limestone)	40 g	OREGON

WBA-291*	<u>Psora novomexicana</u> Lesd.	S & E 9152	May 28, 1985
1 bags(s)	Lecidiaceae lichen on rock (limestone)	100 g	OREGON
WBA-292	<u>Leptogium californicum</u> Tuck.	S & E 9154	May 28, 1985
1 bags(s)	Collemaataceae lichen on soil & moss.	150 g	OREGON
WBA-293	<u>Melanelia subaurifera</u> (Nyl.) Essl.	S & E 9155	May 28, 1985
1 bags(s)	Parmeliaceae lichen on dead bb (Juniperus)	50 g	OREGON
WBA-294*	<u>Psora</u> sp.	S & E 9159	May 28, 1985
1 bags(s)	Lecidiaceae lichen on rock	100 g	OREGON
WBA-295	<u>Umbilicaria phaea</u> Tuck.	S & E 9168A	May 28, 1985
1 bags(s)	Umbilicariaceae lichen on rock (limestone)	25 g	OREGON
WBA-296	<u>Bryoria</u> sp.	S & E 9188	May 31, 1985
1 bags(s)	Alectoriaceae lichen on dead bb (Quercus garryana)	100 g	OREGON
WBA-297*	<u>Peltigera leucophlebia</u> (Nyl.) Gyel.	S & E 9195A	June 1, 1985
1 bags(s)	Peltigeraceae lichen on moss over rock.	30 g	CALIFORNIA
WBA-298	<u>Leptogium corniculatum</u> (With.) Minks	S & E 9206	June 1, 1985
1 bags(s)	Collemaataceae lichen on soil (sand, with moss)	45 g	CALIFORNIA
WBA-299*	<u>Peltigera canina</u> (L.) Willd.	S & E 9207	June 1, 1985
1 bags(s)	Peltigeraceae lichen on soil.	25 g	CALIFORNIA
WBA-300*	<u>Peltigera apthosa?</u> (L.) Willd.	S & E 9208	June 1, 1985
1 bags(s)	Peltigeraceae lichen on soil.	62 g	CALIFORNIA
WBA-301*	<u>Alectoria sarmentosa</u> (Ach.) Ach.	S & E 9213	June 2, 1985
1 bags(s)	Alectoriaceae lichen on rock	75 g	CALIFORNIA

WBA-302*	<u>Hypogymnia</u> <u>lmshaugii</u> Krog	S & E 9225	June 3, 1985
1 bags(s)	Hypogymniaceae lichen on tb (Pseudostuga menziesii)	42 g	OREGON
WBA-303	<u>Cetraria</u> <u>chlorophylla</u> (Willd.) Vain	S & E 9229	June 3, 1985
1 bags(s)	Parmeliaceae lichen on bb (Pinus ponderosa)	25 g	OREGON
WBA-304	<u>Cetraria</u> sp.	S & E 9230	June 3, 1985
1 bags(s)	Parmeliaceae lichen on bb (Pinus ponderosa)	30 g	OREGON
WBA-305*	<u>Parmotrema</u> <u>crisiferum</u> (Tayl.) Hale	SPJ 9287A	June 30, 1985
1 bags(s)	Parmeliaceae lichen on sb	58 g	FLORIDA
WBA-306	<u>Parmotrema</u> <u>stuppeum</u> (Tayl.) Hale	SPJ 9256	June 28, 1985
1 bags(s)	Parmeliaceae lichen on sb (Quercus & Carya)	25 g	NORTH CAROLINA
WBA-307	<u>Neofuscellia</u> <u>subhosseana</u> (Essl.) Essl.	S & E 9175	May 28, 1985
1 bags(s)	Parmeliaceae lichen on rock (serpentine)	84 g	OREGON

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SUBTOTAL: 32 samples representing 17 new species

\* = Samples of duplicate species, but from different location and/or substrate

ABBREVIATIONS:

SPJ = R. W. Spjut

S & E = R. W. Spjut & C. F. Edson

S & M = R. W. Spjut & R. Marin

sb = stembark (In general), tb = trunkbark, bb = branchbark, tw = twig

ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

WBA-344 3 bags(s)	<u>Mascagnia macroptera</u> (Sesse & Moc.) Niedenzu Malpighiaceae St-lf-fl	SCMc 9391 est 8 kg	May 8, 1986 MEXICO
WBA-345 1 bags(s)	<u>Mascagnia macroptera</u> (Sesse & Moc.) Niedenzu Malpighiaceae Fr	SCMc 9391 est 200 g	May 8, 1986 MEXICO
WBA-346 1 bags(s)	Unidentified <u>Allionia incarnata</u> L. Malvaceae st-lf-fl NYCTAGINACEAE	SCMc 9392 100 g	May 8, 1986 MEXICO
WBA-347 1 bags(s)	<u>Nicotiana trigonophylla</u> Dunal Solanaceae rt-st-lf-fl	SCMc 9394 est 1 kg	May 8, 1986 MEXICO
WBA-348 1 bags(s)	<u>Dalea juncea</u> (Rydb.) Wiggins Fabaceae rt-st-lf-fl	SCMc 9395 est 2 kg	May 8, 1986 MEXICO
WBA-349 1 bags(s)	<u>Atamisquea emarginata</u> Miers Capparaceae Rt	SCMc 9396 est 8 kg	May 8, 1986 MEXICO
WBA-350 1 bags(s)	<u>Atamisquea emarginata</u> Miers Capparaceae tw-lf-fl	SCMc 9396 est 1 kg	May 8, 1986 MEXICO
WBA-351 1 bags(s)	<u>Melochia tomentosa</u> L. Sterculiaceae Fr	SMc 9397 85 g	May 9, 1986 MEXICO
WBA-352 1 bags(s)	<u>Ramalina</u> sp. Ramalinaceae Lichen on <u>Jatropha</u> .	SMc 9416 est 1 kg	May 9, 1986 MEXICO
WBA-353 1 bags(s)	<u>Roccella fimbriata</u> Darb. Roccellaceae Lichen on <u>Jatropha</u> .	SMc 9417 est 1 kg	May 9, 1986 MEXICO
WBA-354 1 bags(s)	<u>Ramalina</u> cf <u>moranii</u> Bowler & Rundel Ramalinaceae Lichen on <u>Jatropha</u> .	SMc 9418 est 1 kg	May 9, 1986 MEXICO

## ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

WBA-365 1 bags(s)	<u>Prunus fremontii</u> S. Wats. Rosaceae Sd	SMcM 9469 est 1 kg	May 11, 1986 MEXICO
WBA-367 1 bags(s)	<u>Prunus fremontii</u> S. Wats. Rosaceae Fr minus sd	SMcM 9469 est 1 kg	May 11, 1986 MEXICO
WBA-368 1 bags(s)	<u>Acacia farnesiana</u> (L.) Willd. Fabaceae Fr	SMcM 9470 est 1 kg	May 11, 1986 MEXICO
WBA-369 1 bags(s)	<u>Battarraea</u> <sup>cf.</sup> <u>aphalloides</u> (Dicks.) Pers. Unidentified <u>Gastromycete</u> (fungus) <u>Battarraeaceae</u> <u>Gastromycete</u> fungus on sand	SMcM 9471 est 500 g	May 11, 1986 MEXICO
WBA-370 1 bags(s)	<u>Dendrographa leucophaea</u> (Tuck.) Darb. Roccellaceae Lichen on tw (Jatropha)	SMcM 9489 est 1 kg	May 13, 1986 MEXICO
WBA-371 1 bags(s)	<u>Nama demissum</u> A. Gray var. <u>lineare</u> C.L. Hitch. Hydrophyllaceae rt-st-lf-fl-fr	SMcM 9490 est 2 kg	May 13, 1986 MEXICO
WBA-372 1 bags(s)	<u>Lecanora pinguis</u> Tuck. Lecanoraceae Lichen on rock	SMcM 9525 est 300 g	May 13, 1986 MEXICO
WBA-373 1 bags(s)	<u>Pachycormus discolor</u> (Benth.) Coville var <u>veatchiana</u> Anacardiaceae (Kell.) Gentry Rt	SMcM 9546 est 3 kg	May 13, 1986 MEXICO
WBA-374 1 bags(s)	<u>Pachycormus discolor</u> (Benth.) Coville var <u>veatchiana</u> Anacardiaceae Sb	SMcM 9546 2.46 kg	May 13, 1986 MEXICO
WBA-375 1 bags(s)	<u>Calliandra californica</u> Benth. Fabaceae tw-lf-fl	SMcM 9570 est 2 kg	May 14, 1986 MEXICO
WBA-376 1 bags(s)	<u>Petalonyx linearis</u> Greene Loasaceae Rt	SMcM 9571 1.0 kg	May 14, 1986 MEXICO

## ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

WBA-377 1 bags(s)	<u>Petalonyx linearis</u> Greene Loasaceae St-lf-fl	SMcM 9571 est 1 kg	May 14, 1986 MEXICO
WBA-378 1 bags(s)	<u>Bebbia juncea</u> (Benth.) Greene var. <u>juncea</u> Asteraceae Rt	SMcM 9572 1.18 kg	May 14, 1986 MEXICO
WBA-379 1 bags(s)	<u>Bebbia juncea</u> (Benth.) Greene var. <u>juncea</u> Asteraceae St	SMcM 9572 est 1 kg	May 14, 1986 MEXICO
WBA-380 1 bags(s)	<u>Cardiospermum corindum</u> L. Sapindaceae Rt	SMcM 9573 est 1 kg	May 14, 1986 MEXICO
WBA-381 1 bags(s)	<u>Cardiospermum corindum</u> L. Sapindaceae St-lf-fl	SMcM 9573 est 1 kg	May 14, 1986 MEXICO
WBA-382 1 bags(s)	<u>Salvia cedroensis</u> Greene Lamiaceae Rt	SMcM 9574 est 1 kg	May 14, 1986 MEXICO
WBA-383 1 bags(s)	<u>Salvia cedroensis</u> Greene Lamiaceae St-lf-fl	SMcM 9574 est 1 kg	May 14, 1986 MEXICO
WBA-384 2 bags(s)	<u>Niebla</u> sp. (undescribed) "frizzy" Ramalinaceae Lichen on rock	SMcM 9575 700 g	May 14, 1986 MEXICO
WBA-385 2 bags(s)	<u>Niebla</u> sp. (undescribed) Ramalinaceae Lichen on rock	SMcM 9576 est 400 g	May 14, 1986 MEXICO
WBA-386 1 bags(s)	<u>Encella stenophylla</u> Greene Asteraceae Rt-st-lf	SMcM 9609 est 1 kg	May 14, 1986 MEXICO
WBA-387 1 bags(s)	<u>Erlogonum encelloides</u> Reveal & Hanson Polygonaceae Rt	SMcM 9610 est 1 kg	May 14, 1986 MEXICO

ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

WBA-388 1 bags(s)	<u>Eriogonum encelioides</u> Reveal & Hanson Polygonaceae St-lf	SMcM 9610 est 1 kg	May 14, 1986 MEXICO
WBA-389 2 bags(s)	<u>Rhus lentii</u> Kell. Anacardiaceae Fr (fresh)	SMcM 9611 est 500 g	May 14, 1986 MEXICO
WBA-390 1 bags(s)	<u>Eriogonum preclarum</u> Reveal Polygonaceae Rt	SMcM 9619 est 1 kg	May 14, 1986 MEXICO
WBA-391 1 bags(s)	<u>Eriogonum preclarum</u> Reveal Polygonaceae St-lf-fl	SMcM 9619 est 1 kg	May 14, 1986 MEXICO
WBA-392 1 bags(s)	<u>Peucephyllum</u> sp. (undescribed) Asteraceae Rt	SMcM 9622 est 1 kg	May 14, 1986 MEXICO
WBA-393 1 bags(s)	<u>Peucephyllum</u> sp. (undescribed) Asteraceae St-lf-fl	SMcM 9622 est 1 kg	May 14, 1986 MEXICO
WBA-394 1 bags(s)	<u>Eriogonum pondii</u> Greene Polygonaceae Rt-st-lf-fl	SMcM 9624 est 500 g	May 14, 1986 MEXICO
WBA-395 1 bags(s)	<u>Sarcostemma arenarium</u> Decne. Asclepiadaceae Rt-st-lf	SMcM 9627 est 500 g	May 14, 1986 MEXICO
WBA-396 1 bags(s)	<u>Heppia</u> sp. Heppiaceae Lichen with soil	SMcM 9628 est 5 kg	May 14, 1986 MEXICO
WBA-397 1 bags(s)	<u>Psora decipiens</u> (Ach.) Hoffm. Lecidiaceae Lichen with soil	SMcM 9630 370 g	May 14, 1986 MEXICO
WBA-398 2 bags(s)	<u>Niebla</u> sp. (undescribed) "penicillata type" Ramalinaceae Lichen on rock	SMcM 9689 400 g	May 15, 1986 MEXICO



ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

WBA-399 2 bags(s)	<u>Niebla</u> sp. (undescribed) "conglomerate" Ramalinaceae Lichen on rock	SMcM 9704 est 400 g	May 15, 1986 MEXICO
WBA-400 2 bags(s)	<u>Niebla ceruchis</u> (Ach.) Rundel & Bowler Ramalinaceae Lichen on tw (Fouquieria)	SMcM 9713 400 g	May 15, 1986 MEXICO
WBA-401 1 bags(s)	<u>Greenella ramulosa</u> Greene Asteraceae Rt-st-lf-fl	SMcM 9721 est 1 kg	May 15, 1986 MEXICO
WBA-402 1 bags(s)	<u>Sesuvium verrucosum</u> Raf. Alzoaceae Rt-st-lf-fl (fresh)	SMcM 9756 est 5 kg	May 16, 1986 MEXICO
WBA-403 1 bags(s)	<u>Limonium californicum</u> (Boiss.) Heller Plumbaginaceae var. <u>mexicanum</u> (Blake) Munz Rt	SMcM 9804 est 1 kg	May 18, 1986 MEXICO
WBA-404 1 bags(s)	<u>Limonium californicum</u> (Boiss.) Heller var. <u>mexicanum</u> Plumbaginaceae St-lf-fl	SMcM 9804 4.5 kg	May 18, 1986 MEXICO
WBA-405 1 bags(s)	<u>Yucca valida</u> T.S. Brandegees Agavaceae Sb	SMcM 9805 2.42 kg	May 18, 1986 MEXICO
WBA-406 2 bags(s)	<u>Stillingia linearifolia</u> S. Wats. Euphorbiaceae Rt	SMcM 9806 10 kg	May 18, 1986 MEXICO
WBA-407 1 bags(s)	<u>Stillingia linearifolia</u> Euphorbiaceae St-lf-fl	SMcM 9806 est 1 kg	May 18, 1986 MEXICO
WBA-408 1 bags(s)	<u>Parmotrema</u> sp. <u>hypoleucites</u> Parmeliaceae Lichen on st (Jatropha)	SMcM 9842 70 g	May 18, 1986 MEXICO
WBA-409 1 bags(s)	<u>Dendrographa minor</u> Darb. Roccellaceae Lichen on st (Jatropha)	SMcM 9843 est 1 kg	May 18, 1986 MEXICO

ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

WBA-410	<u>Niebla ceruchis</u> (complex)	SMcM 9844	May 18, 1986
2 bags(s)	Ramalinaceae Lichen on tw ( <u>Jatropha</u> & <u>Fouquieria</u> )	est 400 g	MEXICO
WBA-411	<u>Ramalina menziesii</u> Tayl.	SMcM 9846	May 18, 1986
1 bags(s)	Ramalinaceae Lichen on tw (Idria)	est 1 kg	MEXICO
WBA-412	<u>Ipomopsis gloriosa</u> (Brandege) A. & V. Grant	SMcM 9847	May 18, 1986
1 bags(s)	Polemoniaceae tw-lf	est 1 kg	MEXICO
WBA-413	<u>Xylonia arborea</u> (Kell.) Donn.-Smith & Rose	MSMcM 9848	May 18, 1986
2 bags(s)	Onagraceae ssp. <u>wigginsii</u> Munz Tuber (fresh)	est 85 g	MEXICO
WBA-414	<u>Cassia purpusii</u> Brandege	SMcM 9898	May 19, 1986
2 bags(s)	Fabaceae Fr	est 400 g	MEXICO
WBA-415	<u>Idria columnaris</u> Kell.	SMcM 9900	May 19, 1986
1 bags(s)	Fouquieriaceae Sb	1.95 kg	MEXICO
WBA-416	<u>Phaseolus filliformis</u> Benth.	SMcM 9944	May 19, 1986
1 bags(s)	Fabaceae rt-st-lf-fl	est 50 g	MEXICO
WBA-417	<del>Unknown</del> <u>Roccellina</u> sp. (Genus new to N. America)	SMcM 9967	May 19, 1986
1 bags(s)	Roccellaceae Lichen on rock	300 g	MEXICO
WBA-418	<u>Nicotiana glauca</u> R. Graham	SMcM 10018	May 19, 1986
1 bags(s)	Solanaceae tw-lf	est 1 kg	MEXICO
WBA-419	<u>Fouquieria diquetii</u> (Van Tieghem) I.M. Johnst.	SMcM 10019	May 19, 1986
1 bags(s)	Fouquieriaceae Fl	est 500 g	MEXICO
WBA-420	<u>Romneya trichocalyx</u> Eastw.	SMcM 10020	May 21, 1986
1 bags(s)	Papaveraceae st-lf-fl	est 500 g	MEXICO

ACCESSION AND INVOICE RECORD: BAJA CALIF SAMPLES FOR DR. CASSADY

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TOTAL: 91 samples

ABBREVIATIONS:

WEIGHTS: est = estimate, g = grams, kg = kilograms

COLLECTORS:

SCMc = R. W. Spjut, J.M. Cassady & T. McCloud

SMc = R. W. Spjut & T. McCloud

SMcM = " " & R. Marin

PLANT PARTS: rt = root, sb = stembark, st = stem, tw = twig, lf = leaf, fl = flower, fr = fruit.

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-428 4 bags(s)	<u>Hylocomium splendens</u> (Hedw.) B.S.G. Hylocomiaceae moss on rock	SPJ 10123 38 lb.	September 8, 1986 WEST VIRGINIA
WBA-429 4 bags(s)	<u>Ptilium crista-castrensis</u> (Hedw.) De Not. Hypnaceae moss on rock	SPJ 10024 43 lb.	September 8, 1986 WEST VIRGINIA
WBA-430 1 bags(s)	<u>Peltigera canina</u> (L.) Willd. <sup>2</sup> Peltigeraceae lichen on moss (reasonably cleaned <sup>3</sup> )	SPJ 10127 6.0 lb.	September 8, 1986 WISCONSIN
WBA-431 1 bags(s)	<u>Peltigera canina</u> (L.) Willd. <sup>2</sup> Peltigeraceae lichen on moss (extra-cleaned <sup>4</sup> )	SPJ 10127 1.75 lb.	September 8, 1986 WISCONSIN
WBA-432 1 bags(s)	<u>Peltigera elizabethae</u> Gyel. <sup>2</sup> Peltigeraceae lichen on moss (extra-cleaned)	SPJ 10126 2.1 lb.	September 8, 1986 WISCONSIN

<sup>1</sup> Moss clods = Diphysium foliosum and soil. Some soil removed by gentle rubbing against metal screen after sample has dried.

<sup>2</sup> Supplied in reponse to request for Peltigera polydactyla which should be reidentified to Peltigera canina. Peltigera elizabethae is very close to P. polydactyla. In Mason Hale's lichen book this name is briefly cited under his description of P. polydactyla. The taxonomy of Peltigera spp. is reportedly under study.

<sup>3</sup> Reasonably cleaned = sticks, rotting leaves and conifer cones, soil, and most living and dead bryophytes picked from sample. This sample is believed to be equivalent to 20 pounds of the original type sample.

<sup>4</sup> Extra-cleaned = cleaned plus extra effort to remove all living bryophyte materials.

WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
Laurel, MD 20708-0829  
EIN: 152131692501 SF37: XSXX6  
(301) 498-5067

ACCESSION AND INVOICE RECORD

October 17, 1986

TO: Dr. Gordon M. Cragg, Ph.D  
Natural Products Branch  
National Cancer Institute, NIH  
Bethesda, Maryland 20205

PURCHASE ORDER NO. 263-AD-S60035

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-433 1 bags(s)	<u>Peltigera horizontalis</u> (Huds.) Baumg. <sup>1</sup> Peltigeraceae lichen on moss (cleaned <sup>2</sup> )	SPJ 10128 160 g	September 8, 1986 WISCONSIN
WBA-434 1 bags(s)	<u>Peltigera leucophlebia</u> (Nyl.) Gyel. <sup>1</sup> Peltigeraceae lichen on moss (cleaned <sup>2</sup> )	SPJ 10129 100 g	September 8, 1986 WISCONSIN
WBA-435 1 bags(s)	<u>Tortella tortuosa</u> (Hedw.) Limpr. <sup>1</sup> Pottiaceae moss on rock	SPJ 10131 3.5 lb.	September 8, 1986 WISCONSIN
WBA-436 1 bags(s)	<u>Nostoc cf. sphaericum</u> Vaucher Nostocaceae blue-green alga (dried <sup>4</sup> )	SPJ 10101 40 g	August 23, 1986 OREGON
WBA-437 1 bags(s)	<u>Nostoc pruniforme</u> Agard ex Bornet & Flahault Nostocaceae blue-green alga (dried <sup>5</sup> )	SPJ 10102 115 g	August 23, 1986 OREGON

WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
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ACCESSION AND INVOICE RECORD

October 31, 1986

TO: Dr. Gordon M. Cragg, Ph.D  
Natural Products Branch  
National Cancer Institute, NIH  
Bethesda, Maryland 20205

PURCHASE ORDER NO. NONE: Free Samples

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-453 bags(s)	<u>Peltigera rufescens</u> (Weiss.) Humb. Peltigeraceae Lichen on moss	SPJ 10147 <u>Polytrichum juniperinum</u> 80 g	October 13, 1986 NEW YORK
WBA-454 1 bags(s)	<u>Bryhnia graminicolor</u> (Brid.) Grout Brachytheciaceae Moss on rock	SPJ 10132 4.0 lb.	September 21, 1986 WISCONSIN

NOTE: Samples shipped to Dr. David Kingston, Virginia Polytechnic Institute and State University, Department of Chemistry, Blacksburg, Virginia 24061

WORLD BOTANICAL ASSOCIATES  
P.O. Box 2829  
Laurel, MD 20708-0829  
EIN: 152154050401 SF37: XSXX2  
(301) 498-5067

ACCESSION AND INVOICE RECORD

May 4, 1989

TO: Dr. Gordon M. Cragg, Ph.D  
Natural Products Branch  
National Cancer Institute, NIH  
6130 Executive Blvd.  
Executive Plaza North, Rm. 804  
Bethesda, Maryland 20892

PURCHASE ORDER NO. 263-AD-S90056

ACCESSION/# PIECES	NAME/FAMILY - DESCRIPTION	COLL.-NO./QUANTITY	DATE/LOCATION
WBA-727 1 bags(s)	<u>Niebla suffnessii</u> Spjut Ramalinaceae lichen on rock	SPJ 10573 134 g	April 14, 1989 MEXICO
WBA-728 1 bags(s)	<u>Teloschistes exilis</u> (Michx.) Valn. Teloschistaceae lichen on twig	S&M 10794 158 g	April 19, 1989 MEXICO

TOTAL: 2 General Samples of Lichens

NO CHARGE

NOTES:

S & M = R. W. Spjut & R. Marin

Niebla suffnessii Spjut is a manuscript name, and should be referred to as Niebla sp. in scientific publication, until validly published. Expected date of publication is about 1 year from the date of this record.