DEPARTMENT OF HEALTH AND HUMAN SERVICES

PUBLIC HEALTH SERVICE

FOOD AND DRUG ADMINISTRATION

MILK LABORATORY EVALUATION FORM

LABORATORY	
LOCATION	LAB#
DATE	U = UNDETERMINED NA = NOT APPLICABLE

1. Worl	k Area	4. If not obvious, include reason for correction
a. Le	evel table or bench, ample working space and utilities	f. Requirements for electronic/computer records
	lean, well ventilated, temperature 16-27C reasonably free	1. Software must be well documented
	om dust and drafts	2. Protocols and policies must be clearly documented
	/ell-lighted, > 50 foot-candles at working surface (pref.	3. Records must be indexed and cross referenced to allow
	00)	easy review, or must be printed and made available
	licrobic density of air ≤ 15 colonies/plate in 15 min	4. Records must be secure from unauthorized access and
	consure, or \leq 10 colonies/PAC plate in 15 min exposure, if	changes
	ot corrective actions taken	5. When corrections are necessary the old information must
	reedom from congestion and traffic, only compatible	be retained, the person making the correction must be
	boratory functions performed	identified and the reason for the change recorded
	afe working environment — Refer to OSHA	6. If records are not available at time of audit, facility will be
	Eating and drinking <i>not</i> permitted in laboratory	cited for not having records and will be subject to
	Food and drinks for consumption not stored in laboratory	penalties
	Analysts wear buttoned/snapped lab coats/uniforms and	
•	protective eye-wear, lab coats/uniforms remain on-site	APPARATUS & MATERIALS
4	Safety equipment available	3. Thermometers
	MSDS sheets in laboratory available to analysts	a. National Institute of Standards and Testing (NIST) Certified
	Has functioning fume hood with acceptable sash (if	Thermometer, or equivalent, with certificate Serial
0.	necessary, see DMSCC procedure)	Number
7	Flammable solvent areas continuously well ventilated and	1. Graduation interval not more than 0.5C (0 - 100C)
• •	temperature controlled	otherwise not more than 1.0C (< 0 or > 100C)
8	Proper disposal of potentially hazardous materials	2. Calibration date on certificate
0.	a. Contaminated samples disposed of properly	3. Annually, checked at the ice point Date
	b. Contaminated glassware or plasticware disposed of or	b. Range of test thermometers appropriate for designated use
	decontaminated properly	1. Mercury-in-glass, alcohol/spirit or digital in degrees
	c. Hazardous chemical disposed of properly	centigrade
a St	torage Space	Plastic lamination recommended for mercury thermom-
	Cabinets, drawers, and shelves adequate	eters
	reas neat, clean and orderly	c. Graduation interval not more than 0.5C (0 - 100C) otherwise
	oors clean, walls and ceilings in good repair	not more than 1.0C (< 0 or > 100C)
	aboratory free of insects and rodents	d. Accuracy of test thermometers checked against certified
	ords	thermometer
	Il laboratory related records maintained and available for	1. Accurate to ±1C when checked at temperature(s) of use
	nnounced surveys	2. Results recorded and thermometers tagged
	Three (3) years for state central labs	a. Tag includes identification/location, date of check,
	Two (2) years for other labs, minimum requirement,	calibration temperature and correction factor(s) (read
	States may require longer periods	to within ±0.5C)
h O	uality control and sample records available to laboratory	e. All test thermometers accuracy checked before initial use
	valuation officer during survey	and annually, including autoclave maximum registering and
	ecords contain written corrective actions when taken	hot air oven thermometers
	ecords written in ink or other indelible substance, pencil or	f. Electronic thermometers checked before initial use and
	asable ink not allowed	annually as described above
	orrections to quality control records, bench sheets and	g. Automatic temperature recording instruments, if used,
	ports follow the requirements below:	compared weekly against accurate thermometers, results
	Make a single line through the incorrect information	recorded
	Write in the correct information next to the incorrect	h. Dial thermometers not used in the laboratory
۷.		
o	Information	4. Refrigeration (Sample)) (Reagent)
٥.	Person making the correction initials the information	(neayelit)

LABORATORY	LAB#	LOCATION	DATE

		_
		Size adequate for workload
	b.	Maintains samples at 0-4.4C; if temperature out of range,
	_	record samples as not analyzed
	C.	Used for storage of milk or milk products, media and
		reagents only
	Ч	Record temperature (corrected) daily, in AM and PM, from
	u.	two thermometers with bulbs immersed in liquid (in sealed
		containers)
	e.	Thermometers located on upper and lower shelves of use
5.		eezer ()
	a.	Size adequate for workload
	b.	Maintains -15C or below
	C.	Used for storage of frozen milk products, controls, media
		and reagents only
		1. Not to be used to store food or drink for consumption
	d.	Record temperature (corrected) daily, in AM and PM,
		thermometer with bulb immersed in antifreeze liquid (in
6	Di	sealed containers) pets (Glass Plastic Pipettor)
υ.	г	a. Appropriate capacity
		b. Must conform to APHA specifications
		c. Graduations distinctly marked with contrasting color
		d. Discard those with broken tips, scratches or other
		defects
		e. Pipettors, calibrated, fixed volume type only
		1. Calibrate with ten (10) consecutive weighings quarterly
		(using separate tip for each weighing), average of all
		10 weighings must be ±5% of specified delivery volume
		(≤1.0 mL by weight, ≥ 1.0 mL by volume using class A
		graduated cylinder), records maintained
		Etched with identification and tagged with date calibrated
		3. Sterile tips appropriate to pipettor(s) being used
7.	Ρi	pet Containers
		a. Used for sterilization, storage; non-toxic
8.	Di	lution Bottles and Closures, reusable
	a.	Bottles of borosilicate glass or approved plastic
		with smooth tops
		Capacity 150 mL, indelibly marked at 99±1 mL level
	C.	Closure non-toxic rubber stopper or plastic screw cap with
	اہ	liner
	a.	New Bakelite type plastic caps and closures treated to
		remove toxic residues, tested using a <i>B. stearothermophilus</i> type assay
	Р	Discard bottles and caps with chips, cracks, scratches or
	٥.	other defects
9.	Pe	tri Dishes (Glass or Plastic)
		Bottom at least 80 mm I.D., and 12 mm deep for plate
		counts
		Brand
	b.	Bottom 86.1 - 87.0 mm I.D., and 12 mm deep for BsDA
		Brand
	C.	Bottom flat and free from bubbles, scratches or other
		defects

0.		tri Dish Container
		Used for sterilization, storage; non-toxic
1.	Н	ot-Air Sterilizing Oven ()
	a.	Sufficient size to prevent crowding of interior in normal usage
	L	•
		Constructed to provide uniform temperature in chamber
	C.	Thermometer or temperature recorder with adequate range (to 220C)
		1. Thermometer checked at temperature of use for accuracy before initial use, records maintained
		2. Thermometer bulb immersed in sand
	d.	Records maintained for each sterilization cycle including
		date, start-up time, time sterilization temperature reached,
		and length of time at sterilization temperature
	e.	Temperature indicator used each load
		Performance checked with full load and recorded quarterly
	•	(preferably weekly) using spore (<i>B. subtilus</i>) strips, include
		positive control check, results maintained
		1. Brand:
		2. Lot #: Exp. Date:
2	St	erilization by Dry Heat
		Material in center of load heated to \geq 170C for \geq 2 hrs
		Oven not crowded ($< 75\%$ of shelf in gravity type, 90% in
	υ.	forced air type)
3	Δı	itoclave (Media)
J .	nı	(Waste)
	a	Sufficient size to prevent crowding of chamber
		Thermometer or temperature recorder-controller properly
	υ.	located to register chamber temperature
	c.	Has pressure gauge and properly adjusted safety valve
		Connected to suitable saturated steam line or steam generator
	^	Chamber temperature checked at least quarterly (preferably
	σ.	more frequently, ex. weekly with sterility check) with full load
	f	with maximum registering thermometer and results recorded Cycle timing checked quarterly and found to be accurate,
	ı.	record maintained
	c	Records maintained for each sterilization cycle including
	y.	date, start-up time, temperature and time temperature
		reached, length of time at temperature, time at end of run,
		time removed and item(s) autoclaved (including waste)
		1. Strip recorders that provide the above information are
		acceptable if strips (or copies) are maintained in perma-
		nent record, include items autoclaved, time removed and
		initials
		2. Circular charts must be interpreted and must have written
		records to verify the information stated above
	h.	Temperature indicator used each load
		Performance checked with full load and results recorded
		weekly using spore (B. stearothermophilus) strips or
		suspensions, include positive control check, results main-
		tained
		1. Brand:
		2. Lot #: Exp. Date:
		Routine maintenance performed and records maintained

LABORATORY	LAB#	LOCATION	DATE

	Sterilization by Moist Heat	c. Record date electrodes (double junction ref	. , .
	a. Media autoclaved at 120±1C		,
	1. Dilution buffer blanks for 15 min (30 min optional)	19. pH Measurement	
	2. Media for 15 min (sugar broths as per manufacturer	a. All measurements made at room temperatur	
	instructions)		
	b. Media autoclaved within 1 hr of preparation	• • • • • • • • • • • • • • • • • • • •	
	c. Dilution buffer autoclaved on same day prepared	2. Each aliquot used once and discarded	
	d. Stoppers or caps slightly loosened to permit passage of steam and air	3. pH 4, 7 and 10 suggested for linearity an function of meter	
	e. All air expelled from autoclave before pressure allowed to	4. Slope determined (95 - 102%)	
	rise	meter calibrated, records maintained	
	f. Autoclave will reach 120±1C within 15 min (5 min pref) of	c. Medium pH recorded each time measured	
	starting air-exhaust	d. Final (after sterilization) pH of each batch of	
	g. Properly operating and calibrated temperature gauge (not a	determined before use, records maintained	
	pressure gauge) relied on to insure sterilization	1. Standard Methods Agar, pH 7.0±0.2	
	h. After sterilization, pressure gradually reduced (≥ 15 min)	2. Violet Red Bile Agar, pH 7.4±0.2	
	and media removed promptly when atmospheric pressure is	3. Brilliant Green Bile Broth, pH 7.2±0.2	
	reached	· ·	
	i. Total time in autoclave less than 1 hour	5. Buffered Rinse Solution, 7.2±0.2	
	Incubator and/or Incubator Room (SPC, PAC and Coliform)	6. Nutrient Broth, pH 6.8±0.2	
	(#1)		
	(#2)		
	a. Sufficient size to prevent crowding of interior		
	b. Shelves placed to assure uniformity at 32C±1C		
	c. Chamber temperatures measured by not less than two	11. Stock Phosphate Buffer, pH 7.2±0.2	
	thermometers with bulbs immersed in liquid (in sealed	12. Stock MgCl ₂ Solution, pH 7.2±0.2	
	containers)	13. Dilution Buffer, pH 7.2±0.2	
	d. Thermometer located on the top and bottom shelves of use	20. Balance (Milk	
	e. Temperature (corrected) recorded from each thermometer	(Media	
	twice daily (AM and PM)	(Analytical)
	f. Agar (10 - 12 mL) in SPC plates and/or (1 mL) in PAC	a. Electronic only, sensitive to $\geq 0.1g$ for general	
	plates must not lose more than 15% weight after 48 hrs	poses and proper sensitivity for calibrations a	* *
	incubation	b. Class S or S1, or equivalent ASTM 1, 2, or	
	1. Agar weight loss of SPC and/or PAC plates tested	Certificate or other verification of authent	
	quarterly and results recorded	2. Free from excessive wear, filth and corro	=
	a. Test minimum of two (2) plates/films per shelf in use,	3. Weights within class tolerance	
	one on each side of shelf, preferably test 10 plates	c. Checked monthly with weights correspondi	ng to normal use
	evenly distributed throughout the incubator	of balance (ex. 100, 200, 500, 1000 mg, etc	c. for analytical
	2. Corrective action taken when criteria not met and records	balances, and 5, 10, 25, 50, 100, 150g, etc.	for other
	of corrective actions maintained		
	a. If weight loss is out of compliance take corrective	d. Checked at least annually, or when weights	out of tolerance,
	actions (humidify incubator, reduce air flow, etc.) and	by a qualified representative for good worki	ng order with
	retest as above and record	· · · · · · · · · · · · · · · · · · ·	
	b. Use more agar (15 - 20 mL), if this option used	1. Date of last check	
	laboratory must document that this amount of agar is	21. Water Baths	
	routinely used for plating		
	Colony Counter		
-	a. Quebec dark-field model or equivalent with satisfactory grid	c. Appropriate size for work loads	
	plate		
	Hand Tally, accurate		
18.	pH Meter (Milk Lab)		
	(Media Prep)		
	a. Electronic only, readable to 0.1 pH units		
	b. Daily calibration and slope records and maintenance log	a. Analysts instructed to take extreme caution	as media
	maintained when in use	expands rapidly at the boiling point	

LABORATORY	LAB#	LOCATION	DATE

24.		icrobiologically Suitable (MS) Water	
		Type	
		System used	
	C.	Monthly testing criteria	
		1. Standard plate count < 1,000 colonies/mL (< 10,000	
		colonies/mL if stored)	g.
		2. Total chlorine residual negative, recorded as less than the	h.
		detection limit of test used	
		3. Resistance exceeds 0.5 megohm/cm or conductance is	26. R
		less than 2.0 umhos/cm (at 25C)	27. M
		a. Brand: Std	a.
		b. Test performed in another lab	
	d.	Tested annually for total metals (Pb, Cd, Cr, Cu, Ni and Zn),	
		not to exceed 0.05 mg/L for each metal and not to exceed	
		0.1 mg/L total for all metals	
	e.	If criteria not met, corrective action(s) taken and recorded in	
		QC record	
		Records maintained	
25.		ilution Buffer and Blanks	
	a.	Stock phosphate buffer (Date prepared)	
		1. Prepared in laboratory (34g KH ₂ PO ₄ /liter) with MS water	b.
		2. Purchased commercially prepared	
		3. Lot No Exp. Date	
		Rcd. Date Date Opened	
		4. Place in small containers (\leq 100 mL), autoclave and	
		store in refrigerator	
	b.	Stock MgCl ₂ Solution, Optional (Date prepared)	
		1. Prepared in laboratory (38g MgCl ₂ /liter or 81.1 g MgCl ₂ .	
		6H ₂ O/liter) with MS water pH	C.
		2. Purchased commercially prepared	
		3. Lot No Exp Date	
		Rcd. Date Date Opened	d.
		4. Place in small containers (\leq 100 mL), autoclave and	
		store in refrigerator	
	C.	Prepare dilution buffer with 1.25 mL stock buffer/liter of MS	
		water	
		1. Optionally, add 5 mL of stock MgCl ₂ /liter of MS water	
	d.	Dilution bottles filled to contain 99±2 mL dilution buffer after	
		sterilization	
		1. After sterilization and after cool visually observe and	
		discard any blanks with < 97 or > 101 mL	
		2. Of remaining blanks appearing to have the correct	
		volume, check 1 blank for every 25 that were made using	
		a class A graduate cylinder (or equivalent)	
		3. Maintain records of volume checks, including batch size	
		4. If any blanks out of tolerance, discard entire lot, record lot	e.
		as discarded	
	e.	Blanks tested at 6 month intervals for toxic substances	
		1. Plate milk dilution at 0, 15, 30, 45 min	f.
		2. If the 45 min count is 20% less than 0 min count,	
		determine cause and retest after correction made, records	
		maintained	g.
	f.	Alternatively, commercially prepared dilution buffer blanks	
		used	

Lot No	Exp. date
	ds maintained as above
Toxicity check	ed as above on <i>each</i> new lot received
	record
	ned
h. Corrective action	taken when criteria not met, records
. Reagent Chemical	s - of ACS Grade
•	medium of correct composition
	ated on receipt (in lab or by central receiv-
-	er first) and when first opened for use
	cified by manufacturer; after opening, each
	capped following each use
	sealed medium kept no longer than
	s expiration date
·	s used until manufacturer's expiration date
	ny change is noted in appearance or
	ardless of manufacturer's expiration date
	·
1. Composition:	Pancreatic Digest of Casein 5 g
	Yeast Extract 2.5 g
	Glucose 1 g
	Agar 15 g
	MS water to make 1 L
	Exp. Date
	Date Opened
	Count (PAC) Plate
	Exp. Date
	Date Opened
d. Violet Red Bile A	gar
i. Composition:	Yeast Extract 3 g
	Peptone or Gelysate 7 g
	Bile Salts 1.5 g
	Lactose 10 g
	Sodium Chloride 5 g
	Neutral Red 0.03 g
	Crystal Violet 0.002 g Agar 15 g
	MS water to make 1 L
2 Rail 2 min to	
	mper and use within 3 hours (do not
	Exp. Date
	n Count (PCC) Plate
	Exp. Date
Red Data	Exp. Date Date Opened
	ensitivity Coliform Count (HSCC) Plate
	Exp. Date
	Exp. Date Date Opened
	actose Bile Broth
	Peptone or Gelysate 10 g
i. odilipositidil.	Lactose 10 g
	Oxgall 20 g
	0/yan 20 y

LABORATORY	LAB#	LOCATION	DATE

		Brilliant Green 0.0133 g
		MS water to make 1 L
	2. Lot No	Exp. Date
		Date Opened
h.		r
	1. Composition:	Beef Extract 3 g
	·	Peptone 5 g
		Tryptone 1.7 g
		Soytone 0.3 g
		Dextrose 5.25 g
		Sodium Chloride 0.5 g
		Dipotassium Phosphate 0.25 g
		Polysorbate 80 1 g
		Brom Cresol Purple 0.06 g
		Agar15 g
		MS water to make 1 L
	O Lot No	
		Exp. Date
		Date Opened
Ι.		Olution
	1. Composition	•
		10% Na Thiosulfate Solution 5 mL Azolectin 4 g
		· · · · · · · · · · · · · · · · · · ·
		Tween 20 10 g
		MS water to make 1 L
		copic Azolectin rapidly and dissolve by
	-	oiling water
_		
j.	Nutrient Broth (la	boratory use only)
	1. Composition	Beef Extract 3 g
		Peptone 5 g
		MS water to make 1 L
		Exp. Date
		Date Opened
k.		
	•	trifilm, Do not use diluents containing
	thiosulfate or so	
		Peptamin 10 g
		Beef Extract 5 g
		Lecithin 0.5 g
		Sorbitan Monooleate 5 g
		Sodium Chloride 5 g
		MS water to make 1 L
	2. Lot No	Exp. Date
		Date Opened
l.	Lauryl Tryptose E	Broth (LST)
	1. Composition	Tryptose 20 g
		Lactose 5 g
		Dipotassium Phosphate 2.75 g
		Monopotassium Phos-
		phate 2.75 g
		Sodium Chloride 5 g
		Sodium Lauryl Sulfate 0.1 g
		MS water to make 1 L
	2. Lot No	Exp. Date
		Date Opened

M-Endo Agar	
1. Composition	Yeast Extract 1.2 g
•	Casitone 3.7 g
	Thiopeptone 3.7 g
	Tryptose 7.5 g
	Lactose 9.4 g
	Dipotasium Phosphate 3.3 g
	Monopotasium Phosphate 1 g
	Sodium Chloride 3.7 g
	Sodium Desoxycholate 0.1 g
	Sodium Lauryl Sulfate 0.05 g
	Sodium Sulfite 1.6 g
	Basic Fuchsin 0.8 g
	Agar 15 g
	MS water to make 1 L
	Exp. Date
	Date Opened
M-Endo Broth	
1. Composition	
	Casitone 5 g
	Thiopeptone 5 g
	Tryptose 10 g
	Lactose 12.5 g
	Dipotasium Phosphate 4.375 g
	Monopotasium Phosphate - 1.375 g
	Sodium Chloride 5 g
	Sodium Desoxycholate 0.1 g
	Sodium Lauryl Sulfate 0.05 g
	Sodium Sulfite 2.1 g
	Basic Fuchsin 1.05 g
	MS water to make 1 L
	Exp. Date
	Date Opened
	ium
	or lab prepared media containing MMO-
	Ammonium Culfoto E a
2. Composition	Ammonium Sulfate 5 g
	Manganese Sulfate 0.0005 g
	Zinc Sulfate 0.0005 g
	Magnesium Sulfate 0.1 g
	Sodium Chlorida
	Calcium Chloride 0.05 g
	Sodium Sulfite 0.04 g
	Amphotercin B 0.001 g
	o-nitrophenyl-ß-D-galactopyrano-
	-: O T
	side 0.5 g
	4-methylumbellifery-ß-D-glucuro-
	4-methylumbellifery-ß-D-glucuro- nide 0.075 g
	4-methylumbellifery-ß-D-glucuro- nide 0.075 g Solanium 0.5 g
	4-methylumbellifery-ß-D-glucuro- nide 0.075 g Solanium 0.5 g Hepes Buffer
	4-methylumbellifery-B-D-glucuro- nide 0.075 g Solanium 0.5 g Hepes Buffer Sodium Salt 5.3 g
	4-methylumbellifery-ß-D-glucuro- nide 0.075 g Solanium 0.5 g Hepes Buffer Sodium Salt 5.3 g Organic Acid 6.9 g
	4-methylumbellifery-B-D-glucuro- nide 0.075 g Solanium 0.5 g Hepes Buffer Sodium Salt 5.3 g

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p. Charm E*Colite	31. Cleaning Pipets
1. Lot No Exp. Date	a. Used pipets discarded in disinfectant
Rcd. Date	b. Rinsed in tap water at 15-30C
28. Medium Preparation	
a. Media-making utensils borosilicate glass, stainless steel or	d. Cleaned with strong cleaning solution such as acid dairy
other non-corrosive equipment	cleaner as necessary
b. Weigh required amount of dehydrated medium or ingredi-	e. Final rinse with MS water
ents	
c. Combined with required amount MS water, dissolved and	wet) for residual acid or alkali with aqueous 0.04%
mixed in a suitable container	
d. pH adjusted if necessary	
e. Heated (covered), not under pressure, if necessary, to	32. Cleaning Other Glassware and Apparatus
complete solution (microwave preparation not allowed)	
f. Water restored, as necessary, to compensate for loss due to	then sterilization required prior to washing
evaporation	
g. Distributed into suitable containers so that no part of	c. Machine washed ()
medium is more than 2.5 cm from any surface	
1. In general, containers filled no more than half of total	e. Final rinse with MS water
volume	
h. Suitable container closures used and autoclaved as neces-	wet) for residual acid or alkali with aqueous 0.04%
sary	
i. Pre-dispensed rinse solutions for containers	
1. Dispense in appropriate volume (20, 50, 100 mL, or	
other) and sterilize	SAMPLES
2. Perform quality control checks for volume (100±2 mL) as	
described in cultural procedures item 25d	
29. Prepared Media Storage	
a. Protected from water loss and light	
b. Only screw-capped containers kept no more than 6	(pre-cooling of electronic/digital thermometer probes is
months	
c. Prepared Charm PMI plates, kept no more than 5 days in	2. Temperature control must be at least half the size of the
sealed container at 0-4.4C (tag with date of preparation)	
d. BGB broth at room temperature	
1. Screw capped tubes for 3 months	
2. Loose (slip) capped tubes for 1 week	
3. Stored in dark	· · · · · · · · · · · · · · · · · · ·
e. Petrifilm plate storage	
Refrigerate unopened packages of Petrifilm plates at or	d. Do not accept or test samples if sample containers are
below 8C, if frozen allow 30 min room temperature thaw	leaking
time before opening packages	
2. Use before expiration date on package	
3. After opening, return unused plates to foil pouch, seal	f. Do not accept fluid samples, which are frozen, for microbial
pouch by folding and taping/clipping open end shut	
4. Store re-sealed packages \leq 21C, \leq 50% relative humid-	g. Do not accept raw samples if sample containers have no
ity. Do not refrigerate opened packages.	
5. Use Petrifilm plates within one month after opening	h. If milk sample temperature control exceeds 4.4C on receipt,
package (tag with date opened)	
30. Detergent Suitability Test	
a. Detergent residue test performed if laboratory washes and	hours from collection and sample receipt temperature is no
re-uses glassware (not required if <i>only</i> disposable items	greater than that at collection)
used)	- ,
b. Detergent is suitable for laboratory use	
Brand	j. Do not proceed with analysis if above criteria have not been
Brand	
c. Test each new brand/lot, records maintained	

JRES – GENERAL REQUIREMENTS		
JRES – GENERAL REQUIREMENTS		
se stated all tolerances are ±5%]		
e. Temperature of agar at plating	•	
, ,		
	3. Control results recorded for each inhibitor test performed	
·	nch sheets	
	ous	
!		
	in laboratory	
	e. Copy of current <i>AOAC Manual of Methods</i> in laboratory if	
necessary		
	f. Copy of written Quality Assurance Plan, required for state	
· · · · · · · · · · · · · · · · · · ·		
sy labelately of lability perconner		
al with 	2. Results of inhibitor test(s) accommodiform results	