

63 Zillicoa Street Asheville, NC 28801 © Genova Diagnostics

#### Patient: SAMPLE PATIENT

DOB:

Sex:

MRN:

MRN:			
2000 CDSA (Comprehensive Digest		itool Iethods, Vitek 2® System Microbial identifica	etion and Antibiotic
		ELISA, Ion Selective Electrode, Immunoass	
Digestion		Absorptio	
	Reference Range		Reference Range
Chymotrypsin	1.0-32.0 U/g	Triglycerides	0.3-2.8 mg/g
Products of Protein DL Breakdown (Total)	1.8-9.9 micromol/g	Long Chain Fatty Acids	1.2-29.1 mg/g
(Valerate, Isobutyrate, Isovalerate)		Cholesterol (2.1)	0.4-4.8 mg/g
Inside Out	side Reference Range		
Meat Fibers	are None	Phospholipids ( <dl)< td=""><td>0.2-6.9 mg/g</td></dl)<>	0.2-6.9 mg/g
Vegetable Fibers Few	None - Few	Fecal Fat (Total*)	3.2-38.6 mg/g
Metabolic Mark		* Total values equal the sum of all measurable	
		Microbiolo	gy
Beneficial SCFAs (Total*)	Reference Range	Bacteriology	
n-Butyrate	>= 3.6 micromol/g	Beneficial Bacteria Lactobacillus species Escherichia coli	(NG) (4+)
pH 5,2	6.1-7.9	Bifidobacterium	(2+)
Beta- Glucuronidase	368-6,266 U/g	Additional Bacteria Klebsiella pneumoniae	(4+)
* Total values equal the sum of all measurable	parts.	Mycology	
SCFA distribution		Candida kruseii NP	(1+)
Acetate %	48.1-69.2 %	Candida tropicalis <u>NP</u>	
Propionate %	<= 29.3 %		
n-Butyrate %	11.8-33.3 %		
Immunology Inside Out	side Reference Range		
Fecal Negative	Negative		
Macroscopic			
Color Brown	Brown		
Mucus Negative	Negative	*NG NP	PP P
	Newsting		

**CDSA**<sub>m</sub>

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No Growth

Non-Pathogen Possible Pathogen

Negative

Negative

Occult blood +

Pathogen

# Bacterial Sensitivity

Patient: SAMPLE PATIENT DOB: Sex: MRN:



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Prescriptive Agents						
KLEBSIELLA PNEUMONIAE						
	R	I.	S-DD*	S	NI*	
Ampicillin	R					
Amox./Clavulanic Acid				S		
Cephalothin				S		
Ciprofloxacin				S		
Tetracycline				S		
Trimethoprim/Sulfa				S		

## Natural Agents

KLEBSIELLA PNEUMONIAE				
	Low Inhibition	High Inhibition		
Berberine				
Oregano				
Plant Tannins				
Uva-Ursi				

#### **Prescriptive Agents:**

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

The I (Intermediate) category includes isolates for which the minimum inhibition concentration (MIC) values usually approach obtainable pharmaceutical agent levels and for which response rates may be lower than for susceptible isolates.

\* The S-DD (Susceptible-Dose Dependent) category implies clinical efficacy when higher than normal dosage of a drug can be used and maximal concentration achieved.

The S (Susceptible) column implies that isolates are inhibited by the usually achievable concentrations of the pharmaceutical agent.

\* NI (No Interpretive guidelines established) category is used for organisms that currently do not have established guidelines for MIC interpretation.

Refer to published pharmaceutical guidelines for appropriate dosage therapy.

#### Natural Agents:

In this assay, inhibition is defined as the reduction level on organism growth as a direct result of inhibition by a substance. The level of inhibition is an indicator of how effective the substance was at limiting the growth of an organism in an in vitro environment. High inhibition indicates a greater ability by the substance to limit growth, while Low Inhibition a lesser ability to limit growth. The designated natural products should be considered investigational in nature and not be viewed as standard clinical treatment substances.

This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared by the U.S. Food and Drug Administration.

## Yeast Sensitivity

Patient: SAMPLE PATIENT DOB: Sex: MRN:



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Azole Antifungals					
CANDIDA KRUSEII					
Fluconazole ( Voriconazole	R R		S-DD*	S S	NI*
Non-absorbed Antifungals					
CANDIDA KRUSEII	Low Inhibition				High Inhibition
	Na	itural Antifu	ngals		
CANDIDA KRUSEII Berberine	Low Inhibition				High Inhibition
Caprylic Acid Garlic Undecylenic Acid					

#### **Prescriptive Agents:**

Plant tannins Uva-Ursi

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

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Refer to published pharmaceutical guidelines for appropriate dosage therapy.

#### Nystatin and Natural Agents:

Results for Nystatin are being reported with natural antifungals in this category in accordance with laboratory guidelines for reporting sensitivities. In this assay, inhibition is defined as the reduction level on organism growth as a direct result of inhibition by a natural substance. The level of inhibition is an indicator of how effective the substance was at limiting the growth of an organism in an in vitro environment. High inhibition indicates a greater ability by the substance to limit growth, while Low Inhibition a lesser ability to limit growth. The designated natural products should be considered investigational in nature and not be viewed as standard clinical treatment substances.

Sensitivities performed by manual MIC assay.

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## Yeast Sensitivity

Patient: SAMPLE PATIENT DOB: Sex: MRN:



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Azole Antifungals					
CANDIDA TRO	PICALIS				
Fluconazole Voriconazole	R		S-DD*	S S S	NI*
Non-absorbed Antifungals					

CANDIDA TROPICALIS				
	Low Inhibition	High Inhibition		
Nystatin				

Natural Antifungals				
CANDIDA TROPICALIS				
	Low Inhibition	High Inhibition		
Berberine				
Caprylic Acid				
Garlic				
Undecylenic Acid				
Plant tannins				
Uva-Ursi				

#### **Prescriptive Agents:**

The R (Resistant) category implies isolate is not inhibited by obtainable levels of pharmaceutical agent.

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#### Nystatin and Natural Agents:

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Sensitivities performed by manual MIC assay.

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### **ENSURE THE FOLLOWING:**

Peel and stick labels completed with patient's date of birth are on all tubes as well as the test requisition form

#### All tubes:

- Are tightly closed
- □ Sealed in the biohazard bag with absorbent pad
- □ Refrigerated until packaged for shipping

#### All required information:

- All sections of test requisition form completed either online or on the included paper form. If using the online form, the paper form must still be returned with the health care provider's signature
- □ Health survey completed
- Payment information provided
- □ All tubes and associated forms placed back in the original Genova sample collection pack box prior to shipping

## SHIP THE SAMPLE(S) TO THE LAB

## Ship only Monday through Friday, and within 24 hours after final collection.

Please refer to the shipping instruction insert found in your Genova sample collection pack box.



### **REGISTER FOR THE PATIENT RESOURCE CENTER AT WWW.GDX.NET/PRC**

- Complete health surveys
- Make payments
- Access test results

## GASTROINTESTINAL 1 DAY COLLECTION

PATIENT SAMPLE COLLECTION INSTRUCTIONS FOR THE FOLLOWING PROFILE(S)				
GI Effects Comprehensive Profile*	Stool	#2200		
GI Effects Microbial Ecology Profile*	Stool	#2205		
GI Effects Gut Pathogen Profile*	Stool	#2207		
CDSA™ (Comprehensive Digestive Stool Analysis)	Stool	#2000		
CDSA 2.0 without Parasitology	Stool	#2002		

#### **COLLECTION MATERIALS FOR SAMPLE**



#### • CAUTION: Tubes contain poisonous liquid. KEEP OUT OF REACH OF CHILDREN.

- Tubes are under pressure. Cover tube cap with a cloth and remove cap slowly.
- For eye contact, flush with water for 15 mins.
- For skin contact, wash with soap and water.
- For ingestion, contact poison control center immediately.

#### **REQUIRED MATERIALS**

- Disposable glove (vinyl)
- Peel and stick labels
- Black disposable bag
- Absorbent pads
- Test requisition form

### **IMPORTANT INFORMATION BEFORE YOU BEGIN THE COLLECTION**

- Test not recommended for patients under 2 years of age.
- Wait at least 4 Weeks from colonoscopy or barium enema before starting the test.
- Please consult with your physician before stopping any medications. Certain medications and/or supplements may impact test results.
- 2 to 4 Weeks Before the Test:

» Discontinue antibiotics, antiparasitics, antifungals, probiotic supplements (acidophilus, etc.).
 » Discontinue proton pump inhibitors (PPIs), and bismuth 14 Days prior if adding on the H. pylori test.

- 2 Days Before the Test:
- » Discontinue aspirin and other NSAIDs (i.e. ibuprofen), rectal suppositories, enemas, activated charcoal, bismuth, betaine HCL, digestive enzymes, antacids, laxatives, mineral oil, castor oil, and/or bentonite clay.
- DO NOT collect samples when there is active bleeding from hemorrhoids or menstruation.
- Before collecting your specimen refer to the shipping instruction to determine what day you can ship. Ship only Monday through Friday, and within 24 hours after final collection.

- Biohazard bags

Health survey

- Genova sample collection pack box
- FedEx<sup>®</sup> Clinical Lab Pak and Billable Stamp

## COLLECTION

Completely fill out front and back of test requisition form using the included form or online at www.gdx.net/register. Failure to provide all information will result in delay of test processing.



2 Using the peel and stick labels provided record the patient's date of birth and place a label on each of the tubes and the test requisition form

### STOOL COLLECTION

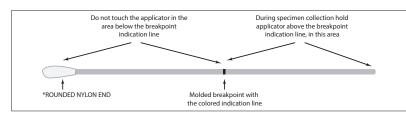
- **3** Put on the glove.
- Collect your stool sample using the enclosed collection container. DO
   NOT contaminate the sample with either urine or water from the toilet.



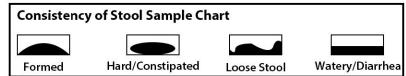


BLENDED SAMPLE & PRESERVATIVE CANNOT EXCEED THE RED FILL LINE

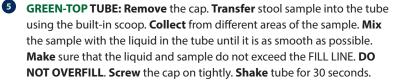
- Peel open swab package, remove the tube, and place it upright. The swab should remain in the sleeve until you are ready to collect sample.
- 8 **Grasp** swab above the molded breakpoint which is the opposite end from the nylon applicator tip. (see diagram below)



- Collect sample by inserting the ROUNDED NYLON END\* (see above) of the swab into the stool sample and rotate it. Confirm that the swab contains fecal material. If not, repeat.
- **Open** the swab collection tube and insert the swab. **Mash** and **mix** the rounded nylon end of the swab with stool on it against the side of the tube.
- Break the swab off at the break point. Place the screw cap on the tube and tighten. Shake the tube. Using the peel and stick label, write patient's date of birth on the label and apply to the swab tube.
- Record the date of collection, stool consistency (refer to chart below), and stool color for Day 3 Collection only, on the Test Requisition Form in the sample consistency, sample color, and collection date areas.



- **13** Dispose of remaining sample into toilet and put collection container and glove in black disposable bag.
- Place all tubes in the biohazard bag and refrigerate. Refrigerate until ready to ship. DO NOT FREEZE.



**NOTE**: If a worm is seen, **DO NOT place** it in tube with stool. Instead **place** it in **GREEN-TOP TUBE WITHOUT** scooping additional stool. Alternatively, a worm can be placed in a clean glass jar with rubbing alcohol, with no additional stool added to jar. Make note on requisition form that a worm was seen and write **WORM** on the tube. **Do not mix and mash** sample if there is a worm inside. **Do not shake tube** if there is a worm inside.

Repeat STEPS 3 through 5 with ORANGE-TOP TUBE, PINK-TOP TUBE, and the WHITE-TOP TUBE.

Note: There is no liquid in the WHITE-TOP TUBE.