```
DESCRIPTIVES VARIABLES=Plate_Count_10_1 Plate_Count_10_2 Plate_Count_10_3 Plate_Count_10_
4
    Total_Coliforms_10_1 Total_Coliforms_10_2 Total_Coliforms_10_3 Total_Coliforms_10_4
    Fecal_Coliforms_10_1 Fecal_Coliforms_10_2 Fecal_Coliforms_10_3 Rhizoid Circular Filam
entous
    Punctiform Irregular Staphylococcus Diplococcus Streptococcus Bacillus Actinomyces St
reptobacillus
    Catalase_Test Citrate_Test Methyl_Red_Test Kovacs_Test_10_1 Kovacs_Test_10_2 Kovacs_T
est_10_3
    EMBA_10_1 EMBA_10_2 EMBA_10_3
  /STATISTICS=MEAN STDDEV.
```

Descriptives

Notes

Output Created		04-JUL-2024 20:29:05
Comments		
Input	Data	D:\Hunter\Data Works\Winnie\Data Model.sav
	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	10
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.

Notes

Syntax		DESCRIPTIVES VARIABLES=Plate_Count _10_1 Plate_Count_10_2 Plate_Count_10_3 Plate_Count_10_4 Total_Coliforms_10_1 Total_Coliforms_10_2 Total_Coliforms_10_3 Total_Coliforms_10_4 Fecal_Coliforms_10_1 Fecal_Coliforms_10_2 Fecal_Coliforms_10_3 Rhizoid Circular Filamentous Punctiform Irregular Staphylococcus Diplococcus Streptococcus Bacillus Actinomyces Streptobacillus Catalase_Test Citrate_Test Methyl_Red_Test Kovacs_Test_10_1 Kovacs_Test_10_2 Kovacs_Test_10_3 EMBA_10_1 EMBA_10_2 EMBA_10_3 /STATISTICS=MEAN STDDEV.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

Descriptive Statistics

	N	Mean	Std. Deviation
Plate Count 10-1	8	15.25	11.094
Plate Count 10-2	8	43.75	65.283
Plate Count 10-3	8	41.50	58.924
Plate Count 10-4	8	20.25	27.170
Total Coliforms 10-1	10	2.40	1.075
Total Coliforms 10-2	10	2.60	.966
Total Coliforms 10-3	10	2.90	.316
Total Coliforms 10-3	10	3.00	.000
Fecal Coliforms 10-1	10	2.20	1.317
Fecal Coliforms 10-2	10	2.20	1.317
Fecal Coliforms 10-3	10	3.00	.000
Rhizoid	10	1.20	.422
Circular	10	1.70	.483
Filamentous	10	1.90	.316
Punctiform	10	1.40	.516
Irregular	10	1.30	.483
Staphylococcus Spp	10	1.60	.516
Diplococcus Spp	10	1.60	.516
Streptococcus Spp	10	1.10	.316
Bacillus Spp	10	1.60	.516
Actinomyces Spp	10	1.10	.316
Streptobacillus Spp	10	1.10	.316
Catalase Test	10	2.00	.000
Citrate Test	10	2.00	.000
Methyl Red Test	10	1.90	.994
Kovacs Test 10-1	8	1.13	1.356
Kovacs Test 10-2	9	.89	1.364
Kovacs Test 10-3	10	1.00	1.247
EMBA for E. Coli 10-1	4	1.25	1.258
EMBA for E. Coli 10-2	3	1.67	1.528
EMBA for E. Coli 10-3	5	.40	.548
Valid N (listwise)	2		

```
FREQUENCIES VARIABLES=Plate_Count_10_1 Plate_Count_10_2 Plate_Count_10_3 Plate_Count_10_4
```

```
    Total_Coliforms_10_1 Total_Coliforms_10_2 Total_Coliforms_10_3 Total_Coliforms_10_4
    Fecal_Coliforms_10_1 Fecal_Coliforms_10_2 Fecal_Coliforms_10_3 Rhizoid Circular Filam
entous
    Punctiform Irregular Staphylococcus Diplococcus Streptococcus Bacillus Actinomyces St
reptobacillus
    Catalase_Test Citrate_Test Methyl_Red_Test Kovacs_Test_10_1 Kovacs_Test_10_2 Kovacs_T
est_10_3
    EMBA_10_1 EMBA_10_2 EMBA_10_3
  /STATISTICS=STDDEV MEAN
  /ORDER=ANALYSIS.
```

Frequencies

Notes

Output Created		04-JUL-2024 20:31:36
Comments		
Input	Data	D:\Hunter\Data Works\Winnie\Data Model.sav
	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	10
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.

Notes

Syntax		FREQUENCIES VARIABLES=Plate_Count_10_1 Plate_Count_10_2 Plate_Count_10_3 Plate_Count_10_4 Total_Coliforms_10_1 Total_Coliforms_10_2 Total_Coliforms_10_3 Total_Coliforms_10_4 Fecal_Coliforms_10_1 Fecal_Coliforms_10_2 Fecal_Coliforms_10_3 Rhizoid Circular Filamentous Punctiform Irregular Staphylococcus Diplococcus Streptococcus Bacillus Actinomyces Streptobacillus Catalase_Test Citrate_Test Methyl_Red_Test Kovacs_Test_10_1 Kovacs_Test_10_2 Kovacs_Test_10_3 EMBA_10_1 EMBA_10_2 EMBA_10_3 /STATISTICS=STDDEV MEAN /ORDER=ANALYSIS.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

Statistics

		Plate Count 10-1	Plate Count 10-2	Plate Count 10-3	Plate Count 10-4	Total Coliforms 10-1
N	Valid	8	8	8	8	10
	Missing	2	2	2	2	0
Mean		15.25	43.75	41.50	20.25	2.40
Std. Deviation		11.094	65.283	58.924	27.170	1.075

Statistics

		Total Coliforms 10-2	Total Coliforms 10-3	Total Coliforms 10-3	Fecal Coliforms 10-1	Fecal Coliforms 10-2
N	Valid	10	10	10	10	10
	Missing	0	0	0	0	0
Mean		2.60	2.90	3.00	2.20	2.20
Std. Deviation		.966	.316	.000	1.317	1.317

Statistics

		Fecal Coliforms 10-3	Rhizoid	Circular	Filamentous	Punctiform	Irregular
N	Valid	10	10	10	10	10	10
	Missing	0	0	0	0	0	0
Mean		3.00	1.20	1.70	1.90	1.40	1.30
Std. Deviation		.000	.422	.483	.316	.516	.483

Statistics

		Staphylococcus Spp	Diplococcus Spp	Streptococcus Spp	Bacillus Spp	Actinomyces Spp
N	Valid	10	10	10	10	10
	Missing	0	0	0	0	0
Mean		1.60	1.60	1.10	1.60	1.10
Std. Deviation		.516	.516	.316	.516	.316

Statistics

		Streptobacillus Spp	Catalase Test	Citrate Test	Methyl Red Test	Kovacs Test 10-1
N	Valid	10	10	10	10	8
	Missing	0	0	0	0	2
Mean		1.10	2.00	2.00	1.90	1.13
Std. Deviation		.316	.000	.000	.994	1.356

Statistics

		Kovacs Test 10-2	Kovacs Test 10-3	EMBA for E. Coli 10-1	EMBA for E. Coli 10-2	EMBA for E. Coli 10-3
N	Valid	9	10	4	3	5
	Missing	1	0	6	7	5
Mean		.89	1.00	1.25	1.67	.40
Std. Deviation		1.364	1.247	1.258	1.528	.548

Frequency Table

Plate Count 10-1

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	5	1	10.0	12.5	12.5
	7	2	20.0	25.0	37.5
	13	2	20.0	25.0	62.5
	16	1	10.0	12.5	75.0
	22	1	10.0	12.5	87.5
	39	1	10.0	12.5	100.0
	Total	8	80.0	100.0	
Missing	System	2	20.0		
Total		10	100.0		

Plate Count 10-2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	9	2	20.0	25.0	25.0
	12	1	10.0	12.5	37.5
	16	1	10.0	12.5	50.0
	20	1	10.0	12.5	62.5
	38	1	10.0	12.5	75.0
	44	1	10.0	12.5	87.5
	202	1	10.0	12.5	100.0
	Total	8	80.0	100.0	
Missing	System	2	20.0		
Total		10	100.0		

Plate Count 10-3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6	1	10.0	12.5	12.5
	8	1	10.0	12.5	25.0
	12	1	10.0	12.5	37.5
	15	1	10.0	12.5	50.0
	21	1	10.0	12.5	62.5
	26	1	10.0	12.5	75.0
	64	1	10.0	12.5	87.5
	180	1	10.0	12.5	100.0
	Total	8	80.0	100.0	
Missing	System	2	20.0		
Total		10	100.0		

Plate Count 10-4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	1	10.0	12.5	12.5
	2	1	10.0	12.5	25.0
	3	1	10.0	12.5	37.5
	7	1	10.0	12.5	50.0
	8	1	10.0	12.5	62.5
	14	1	10.0	12.5	75.0
	58	1	10.0	12.5	87.5
	69	1	10.0	12.5	100.0
	Total	8	80.0	100.0	
Missing	System	2	20.0		
Total		10	100.0		

Total Coliforms 10-1

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1	10.0	10.0	10.0
	1	1	10.0	10.0	20.0
	2	1	10.0	10.0	30.0
	3	7	70.0	70.0	100.0
	Total	10	100.0	100.0	

Total Coliforms 10-2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1	10.0	10.0	10.0
	2	1	10.0	10.0	20.0
	3	8	80.0	80.0	100.0
	Total	10	100.0	100.0	

Total Coliforms 10-3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2	1	10.0	10.0	10.0
	3	9	90.0	90.0	100.0
	Total	10	100.0	100.0	

Total Coliforms 10-3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3	10	100.0	100.0	100.0

Fecal Coliforms 10-1

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	2	20.0	20.0	20.0
	1	1	10.0	10.0	30.0
	3	7	70.0	70.0	100.0
	Total	10	100.0	100.0	

Fecal Coliforms 10-2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	2	20.0	20.0	20.0
	1	1	10.0	10.0	30.0
	3	7	70.0	70.0	100.0
	Total	10	100.0	100.0	

Fecal Coliforms 10-3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3	10	100.0	100.0	100.0

Rhizoid

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	8	80.0	80.0	80.0
	PRESENT	2	20.0	20.0	100.0
	Total	10	100.0	100.0	

Circular

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	3	30.0	30.0	30.0
	PRESENT	7	70.0	70.0	100.0
	Total	10	100.0	100.0	

Filamentous

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	1	10.0	10.0	10.0
	PRESENT	9	90.0	90.0	100.0
	Total	10	100.0	100.0	

Punctiform

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	6	60.0	60.0	60.0
	PRESENT	4	40.0	40.0	100.0
	Total	10	100.0	100.0	

Irregular

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	7	70.0	70.0	70.0
	PRESENT	3	30.0	30.0	100.0
	Total	10	100.0	100.0	

Staphylococcus Spp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	4	40.0	40.0	40.0
	PRESENT	6	60.0	60.0	100.0
	Total	10	100.0	100.0	

Diplococcus Spp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	4	40.0	40.0	40.0
	PRESENT	6	60.0	60.0	100.0
	Total	10	100.0	100.0	

Streptococcus Spp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	9	90.0	90.0	90.0
	PRESENT	1	10.0	10.0	100.0
	Total	10	100.0	100.0	

Bacillus Spp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	4	40.0	40.0	40.0
	PRESENT	6	60.0	60.0	100.0
	Total	10	100.0	100.0	

Actinomyces Spp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	9	90.0	90.0	90.0
	PRESENT	1	10.0	10.0	100.0
	Total	10	100.0	100.0	

Streptobacillus Spp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	9	90.0	90.0	90.0
	PRESENT	1	10.0	10.0	100.0
	Total	10	100.0	100.0	

Catalase Test

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PRESENT	10	100.0	100.0	100.0

Citrate Test

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PRESENT	10	100.0	100.0	100.0

Methyl Red Test

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	ABSENT	5	50.0	50.0	50.0
	PRESENT	1	10.0	10.0	60.0
	BOTH	4	40.0	40.0	100.0
	Total	10	100.0	100.0	

Kovacs Test 10-1

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	4	40.0	50.0	50.0
	1	1	10.0	12.5	62.5
	2	1	10.0	12.5	75.0
	3	2	20.0	25.0	100.0
	Total	8	80.0	100.0	
Missing	System	2	20.0		
Total		10	100.0		

Kovacs Test 10-2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	6	60.0	66.7	66.7
	2	1	10.0	11.1	77.8
	3	2	20.0	22.2	100.0
	Total	9	90.0	100.0	
Missing	System	1	10.0		
Total		10	100.0		

Kovacs Test 10-3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	5	50.0	50.0	50.0
	1	2	20.0	20.0	70.0
	2	1	10.0	10.0	80.0
	3	2	20.0	20.0	100.0
	Total	10	100.0	100.0	

EMBA for E. Coli 10-1

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1	10.0	25.0	25.0
	1	2	20.0	50.0	75.0
	3	1	10.0	25.0	100.0
	Total	4	40.0	100.0	
Missing	System	6	60.0		
Total		10	100.0		

EMBA for E. Coli 10-2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1	10.0	33.3	33.3
	2	1	10.0	33.3	66.7
	3	1	10.0	33.3	100.0
	Total	3	30.0	100.0	
Missing	System	7	70.0		
Total		10	100.0		

EMBA for E. Coli 10-3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3	30.0	60.0	60.0
	1	2	20.0	40.0	100.0
	Total	5	50.0	100.0	
Missing	System	5	50.0		
Total		10	100.0		

```
CROSSTABS
  /TABLES=Plate_Count_10_1 Plate_Count_10_2 Plate_Count_10_3 Plate_Count_10_4 Total_Colif
orms_10_1
    Total_Coliforms_10_2 Total_Coliforms_10_3 Total_Coliforms_10_4 Fecal_Coliforms_10_1
    Fecal_Coliforms_10_2 Fecal_Coliforms_10_3 Rhizoid Circular Filamentous Punctiform Irr
egular
    Staphylococcus Diplococcus Streptococcus Bacillus Actinomyces Streptobacillus Catalas
e_Test
    Citrate_Test Methyl_Red_Test Kovacs_Test_10_1 Kovacs_Test_10_2 Kovacs_Test_10_3 EMBA_
10_1 EMBA_10_2
```

```
  EMBA_10_3 BY Sample
/FORMAT=AVALUE TABLES
/STATISTICS=CORR
/CELLS=COUNT
/COUNT ROUND CELL.
```

Crosstabs

Notes

Output Created		04-JUL-2024 20:34:06
Comments		
Input	Data	D:\Hunter\Data Works\Winnie\Data Model.sav
	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	10
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.

Notes

Syntax		CROSSTABS /TABLES=Plate_Count_10_1 Plate_Count_10_2 Plate_Count_10_3 Plate_Count_10_4 Total_Coliforms_10_1 Total_Coliforms_10_2 Total_Coliforms_10_3 Total_Coliforms_10_4 Fecal_Coliforms_10_1 Fecal_Coliforms_10_2 Fecal_Coliforms_10_3 Rhizoid Circular Filamentous Punctiform Irregular Staphylococcus Diplococcus Streptococcus Bacillus Actinomyces Streptobacillus Catalase_Test Citrate_Test Methyl_Red_Test Kovacs_Test_10_1 Kovacs_Test_10_2 Kovacs_Test_10_3 EMBA_10_1 EMBA_10_2 EMBA_10_3 BY Sample /FORMAT=AVALUE TABLES /STATISTICS=CORR /CELLS=COUNT...
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.03
	Dimensions Requested	2
	Cells Available	524245

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Plate Count 10-1 * Sample	8	80.0%	2	20.0%	10	100.0%
Plate Count 10-2 * Sample	8	80.0%	2	20.0%	10	100.0%
Plate Count 10-3 * Sample	8	80.0%	2	20.0%	10	100.0%
Plate Count 10-4 * Sample	8	80.0%	2	20.0%	10	100.0%
Total Coliforms 10-1 * Sample	10	100.0%	0	0.0%	10	100.0%
Total Coliforms 10-2 * Sample	10	100.0%	0	0.0%	10	100.0%
Total Coliforms 10-3 * Sample	10	100.0%	0	0.0%	10	100.0%
Total Coliforms 10-3 * Sample	10	100.0%	0	0.0%	10	100.0%
Fecal Coliforms 10-1 * Sample	10	100.0%	0	0.0%	10	100.0%
Fecal Coliforms 10-2 * Sample	10	100.0%	0	0.0%	10	100.0%
Fecal Coliforms 10-3 * Sample	10	100.0%	0	0.0%	10	100.0%
Rhizoid * Sample	10	100.0%	0	0.0%	10	100.0%
Circular * Sample	10	100.0%	0	0.0%	10	100.0%
Filamentous * Sample	10	100.0%	0	0.0%	10	100.0%
Punctiform * Sample	10	100.0%	0	0.0%	10	100.0%
Irregular * Sample	10	100.0%	0	0.0%	10	100.0%
Staphylococcus Spp * Sample	10	100.0%	0	0.0%	10	100.0%
Diplococcus Spp * Sample	10	100.0%	0	0.0%	10	100.0%
Streptococcus Spp * Sample	10	100.0%	0	0.0%	10	100.0%
Bacillus Spp * Sample	10	100.0%	0	0.0%	10	100.0%
Actinomyces Spp * Sample	10	100.0%	0	0.0%	10	100.0%
Streptobacillus Spp * Sample	10	100.0%	0	0.0%	10	100.0%

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Catalase Test * Sample	10	100.0%	0	0.0%	10	100.0%
Citrate Test * Sample	10	100.0%	0	0.0%	10	100.0%
Methyl Red Test * Sample	10	100.0%	0	0.0%	10	100.0%
Kovacs Test 10-1 * Sample	8	80.0%	2	20.0%	10	100.0%
Kovacs Test 10-2 * Sample	9	90.0%	1	10.0%	10	100.0%
Kovacs Test 10-3 * Sample	10	100.0%	0	0.0%	10	100.0%
EMBA for E. Coli 10-1 * Sample	4	40.0%	6	60.0%	10	100.0%
EMBA for E. Coli 10-2 * Sample	3	30.0%	7	70.0%	10	100.0%
EMBA for E. Coli 10-3 * Sample	5	50.0%	5	50.0%	10	100.0%

Plate Count 10-1 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Plate Count 10-1	5	0	1	0	0	0	0
	7	0	0	0	0	0	1
	13	1	0	0	0	0	0
	16	0	0	0	1	0	0
	22	0	0	0	0	1	0
	39	0	0	1	0	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample		
		S07	S08	Total
Plate Count 10-1	5	0	0	1
	7	1	0	2
	13	0	1	2
	16	0	0	1
	22	0	0	1
	39	0	0	1
Total		1	1	8

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.210	.235	-.527	.617[c]
Ordinal by Ordinal	Spearman Correlation	-.096	.356	-.237	.820[c]
N of Valid Cases		8			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Plate Count 10-2 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Plate Count 10-2	9	1	0	1	0	0	0
	12	0	0	0	0	0	0
	16	0	1	0	0	0	0
	20	0	0	0	0	1	0
	38	0	0	0	1	0	0
	44	0	0	0	0	0	1
	202	0	0	0	0	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample		
		S07	S08	Total
Plate Count 10-2	9	0	0	2
	12	0	1	1
	16	0	0	1
	20	0	0	1
	38	0	0	1
	44	0	0	1
	202	1	0	1
Total		1	1	8

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.464	.220	1.282	.247[c]
Ordinal by Ordinal	Spearman Correlation	.551	.327	1.617	.157[c]
N of Valid Cases		8			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Plate Count 10-3 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Plate Count 10-3	6	0	0	1	0	0	0
	8	0	0	0	0	0	0
	12	1	0	0	0	0	0
	15	0	1	0	0	0	0
	21	0	0	0	0	0	0
	26	0	0	0	1	0	0
	64	0	0	0	0	1	0
	180	0	0	0	0	0	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample		
		S07	S08	Total
Plate Count 10-3	6	0	0	1
	8	0	1	1
	12	0	0	1
	15	0	0	1
	21	1	0	1
	26	0	0	1
	64	0	0	1
	180	0	0	1
Total		1	1	8

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.278	.215	.709	.505[c]
Ordinal by Ordinal	Spearman Correlation	.238	.381	.600	.570[c]
N of Valid Cases		8			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Plate Count 10-4 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Plate Count 10-4	1	0	1	0	0	0	0
	2	0	0	1	0	0	0
	3	0	0	0	1	0	0
	7	0	0	0	0	0	0
	8	0	0	0	0	1	0
	14	0	0	0	0	0	0
	58	1	0	0	0	0	0
	69	0	0	0	0	0	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample		
		S07	S08	Total
Plate Count 10-4	1	0	0	1
	2	0	0	1
	3	0	0	1
	7	0	1	1
	8	0	0	1
	14	1	0	1
	58	0	0	1
	69	0	0	1
Total		1	1	8

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.092	.353	-.227	.828[c]
Ordinal by Ordinal	Spearman Correlation	.286	.426	.730	.493[c]
N of Valid Cases		8			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Total Coliforms 10-1 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Total Coliforms 10-1	0	0	0	0	0	0	0
	1	0	0	0	1	0	0
	2	0	0	0	0	1	0
	3	1	1	1	0	0	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Total Coliforms 10-1	0	0	0	0	1	1
	1	0	0	0	0	1
	2	0	0	0	0	1
	3	1	1	1	0	7
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.341	.297	-1.027	.334[c]
Ordinal by Ordinal	Spearman Correlation	-.261	.344	-.765	.466[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Total Coliforms 10-2 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Total Coliforms 10-2	0	0	0	1	0	0	0
	2	0	0	0	0	0	0
	3	1	1	0	1	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Total Coliforms 10-2	0	0	0	0	0	1
	2	0	1	0	0	1
	3	1	0	1	1	8
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.190	.222	.547	.599[c]
Ordinal by Ordinal	Spearman Correlation	.043	.303	.122	.906[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Total Coliforms 10-3 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Total Coliforms 10-3	2	0	0	0	1	0	0
	3	1	1	1	0	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Total Coliforms 10-3	2	0	0	0	0	1
	3	1	1	1	1	9
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.174	.134	.500	.631[c]
Ordinal by Ordinal	Spearman Correlation	.174	.180	.500	.631[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Total Coliforms 10-3 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Total Coliforms 10-3	3	1	1	1	1	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Total Coliforms 10-3	3	1	1	1	1	10
Total		1	1	1	1	10

Symmetric Measures

		Value
Interval by Interval	Pearson's R	.[a]
N of Valid Cases		10

a. No statistics are computed because Total Coliforms 10-3 is a constant.

Fecal Coliforms 10-1 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Fecal Coliforms 10-1	0	0	0	0	0	1	0
	1	0	0	0	1	0	0
	3	1	1	1	0	0	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Fecal Coliforms 10-1	0	0	0	0	1	2
	1	0	0	0	0	1
	3	1	1	1	0	7
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.251	.279	-.733	.484[c]
Ordinal by Ordinal	Spearman Correlation	-.240	.323	-.698	.505[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Fecal Coliforms 10-2 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Fecal Coliforms 10-2	0	0	0	1	0	1	0
	1	0	0	0	0	0	1
	3	1	1	0	1	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Fecal Coliforms 10-2	0	0	0	0	0	2
	1	0	0	0	0	1
	3	1	1	1	1	7
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.223	.229	.647	.536[c]
Ordinal by Ordinal	Spearman Correlation	.217	.280	.629	.547[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Fecal Coliforms 10-3 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Fecal Coliforms 10-3	3	1	1	1	1	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Fecal Coliforms 10-3	3	1	1	1	1	10
Total		1	1	1	1	10

Symmetric Measures

		Value
Interval by Interval	Pearson's R	.[a]
N of Valid Cases		10

a. No statistics are computed because Fecal Coliforms 10-3 is a constant.

Rhizoid * Sample

Crosstab

Count

		Sample						
		S01	S02	S03	S04	S05	S06	S07
Rhizoid	ABSENT	0	1	1	1	0	1	1
	PRESENT	1	0	0	0	1	0	0
Total		1	1	1	1	1	1	1

Crosstab

Count

		Sample			
		S08	S09	S10	Total
Rhizoid	ABSENT	1	1	1	8
	PRESENT	0	0	0	2
Total		1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.435	.223	-1.367	.209[c]
Ordinal by Ordinal	Spearman Correlation	-.435	.243	-1.367	.209[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Circular * Sample

Crosstab

Count

		Sample						
		S01	S02	S03	S04	S05	S06	S07
Circular	ABSENT	0	0	0	0	0	1	1
	PRESENT	1	1	1	1	1	0	0
Total		1	1	1	1	1	1	1

Crosstab

Count

		Sample			
		S08	S09	S10	Total
Circular	ABSENT	0	1	0	3
	PRESENT	1	0	1	7
Total		1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.418	.225	-1.301	.230[c]
Ordinal by Ordinal	Spearman Correlation	-.418	.248	-1.301	.230[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Filamentous * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Filamentous	ABSENT	0	0	0	0	0	0
	PRESENT	1	1	1	1	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Filamentous	ABSENT	0	0	1	0	1
	PRESENT	1	1	0	1	9
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.406	.193	-1.257	.244[c]
Ordinal by Ordinal	Spearman Correlation	-.406	.203	-1.257	.244[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Punctiform * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Punctiform	ABSENT	1	1	1	1	1	0
	PRESENT	0	0	0	0	0	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Punctiform	ABSENT	0	0	1	0	6
	PRESENT	1	1	0	1	4
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.640	.193	2.353	.046[c]
Ordinal by Ordinal	Spearman Correlation	.640	.208	2.353	.046[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Irregular * Sample

Crosstab

Count

		Sample						
		S01	S02	S03	S04	S05	S06	S07
Irregular	ABSENT	1	1	1	1	1	1	1
	PRESENT	0	0	0	0	0	0	0
Total		1	1	1	1	1	1	1

Crosstab

Count

		Sample			
		S08	S09	S10	Total
Irregular	ABSENT	0	0	0	7
	PRESENT	1	1	1	3
Total		1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.798	.093	3.742	.006[c]
Ordinal by Ordinal	Spearman Correlation	.798	.110	3.742	.006[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Staphylococcus Spp * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Staphylococcus Spp	ABSENT	0	0	1	0	1	1
	PRESENT	1	1	0	1	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Staphylococcus Spp	ABSENT	0	0	1	0	4
	PRESENT	1	1	0	1	6
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.071	.290	-.202	.845[c]
Ordinal by Ordinal	Spearman Correlation	-.071	.315	-.202	.845[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Diplococcus Spp * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Diplococcus Spp	ABSENT	0	1	0	1	0	0
	PRESENT	1	0	1	0	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Diplococcus Spp	ABSENT	1	0	1	0	4
	PRESENT	0	1	0	1	6
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.000	.310	.000	1.000[c]
Ordinal by Ordinal	Spearman Correlation	.000	.318	.000	1.000[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Streptococcus Spp * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Streptococcus Spp	ABSENT	1	0	1	1	1	1
	PRESENT	0	1	0	0	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Streptococcus Spp	ABSENT	1	1	1	1	9
	PRESENT	0	0	0	0	1
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.406	.193	-1.257	.244[c]
Ordinal by Ordinal	Spearman Correlation	-.406	.203	-1.257	.244[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Bacillus Spp * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Bacillus Spp	ABSENT	1	1	0	1	0	0
	PRESENT	0	0	1	0	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Bacillus Spp	ABSENT	0	0	1	0	4
	PRESENT	1	1	0	1	6
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.426	.286	1.333	.219[c]
Ordinal by Ordinal	Spearman Correlation	.426	.311	1.333	.219[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Actinomyces Spp * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Actinomyces Spp	ABSENT	1	1	1	1	0	1
	PRESENT	0	0	0	0	1	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Actinomyces Spp	ABSENT	1	1	1	1	9
	PRESENT	0	0	0	0	1
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.058	.109	-.164	.873[c]
Ordinal by Ordinal	Spearman Correlation	-.058	.175	-.164	.873[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Streptobacillus Spp * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Streptobacillus Spp	ABSENT	1	1	1	1	1	1
	PRESENT	0	0	0	0	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Streptobacillus Spp	ABSENT	1	1	0	1	9
	PRESENT	0	0	1	0	1
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	.406	.193	1.257	.244[c]
Ordinal by Ordinal	Spearman Correlation	.406	.203	1.257	.244[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Catalase Test * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Catalase Test	PRESENT	1	1	1	1	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Catalase Test	PRESENT	1	1	1	1	10
Total		1	1	1	1	10

Symmetric Measures

		Value
Interval by Interval	Pearson's R	.[a]
N of Valid Cases		10

a. No statistics are computed because Catalase Test is a constant.

Citrate Test * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Citrate Test	PRESENT	1	1	1	1	1	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Citrate Test	PRESENT	1	1	1	1	10
Total		1	1	1	1	10

Symmetric Measures

		Value
Interval by Interval	Pearson's R	.[a]
N of Valid Cases		10

a. No statistics are computed because Citrate Test is a constant.

Methyl Red Test * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Methyl Red Test	ABSENT	1	0	0	0	0	1
	PRESENT	0	1	0	0	0	0
	BOTH	0	0	1	1	1	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Methyl Red Test	ABSENT	1	0	1	1	5
	PRESENT	0	0	0	0	1
	BOTH	0	1	0	0	4
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.277	.284	-.815	.439[c]
Ordinal by Ordinal	Spearman Correlation	-.288	.316	-.851	.420[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Kovacs Test 10-1 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S06	S07
Kovacs Test 10-1	0	0	1	0	1	1	0
	1	0	0	0	0	0	0
	2	0	0	1	0	0	0
	3	1	0	0	0	0	1
Total		1	1	1	1	1	1

Crosstab

Count

		Sample		
		S08	S09	Total
Kovacs Test 10-1	0	0	1	4
	1	1	0	1
	2	0	0	1
	3	0	0	2
Total		1	1	8

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.252	.339	-.637	.547[c]
Ordinal by Ordinal	Spearman Correlation	-.230	.378	-.579	.584[c]
N of Valid Cases		8			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Kovacs Test 10-2 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S06	S07
Kovacs Test 10-2	0	0	1	1	0	1	0
	2	0	0	0	0	0	1
	3	1	0	0	1	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample			
		S08	S09	S10	Total
Kovacs Test 10-2	0	1	1	1	6
	2	0	0	0	1
	3	0	0	0	2
Total		1	1	1	9

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.441	.248	-1.302	.234[c]
Ordinal by Ordinal	Spearman Correlation	-.428	.279	-1.254	.250[c]
N of Valid Cases		9			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

Kovacs Test 10-3 * Sample

Crosstab

Count

		Sample					
		S01	S02	S03	S04	S05	S06
Kovacs Test 10-3	0	0	0	1	0	0	1
	1	1	1	0	0	0	0
	2	0	0	0	0	1	0
	3	0	0	0	1	0	0
Total		1	1	1	1	1	1

Crosstab

Count

		Sample				
		S07	S08	S09	S10	Total
Kovacs Test 10-3	0	0	1	1	1	5
	1	0	0	0	0	2
	2	0	0	0	0	1
	3	1	0	0	0	2
Total		1	1	1	1	10

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.265	.214	-.777	.460[c]
Ordinal by Ordinal	Spearman Correlation	-.397	.267	-1.224	.256[c]
N of Valid Cases		10			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

EMBA for E. Coli 10-1 * Sample

Crosstab

Count

		Sample				
		S01	S03	S07	S08	Total
EMBA for E. Coli 10-1	0	0	0	0	1	1
	1	0	1	1	0	2
	3	1	0	0	0	1
Total		1	1	1	1	4

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.862	.115	-2.404	.138[c]
Ordinal by Ordinal	Spearman Correlation	-.949	.079	-4.243	.051[c]
N of Valid Cases		4			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

EMBA for E. Coli 10-2 * Sample

Crosstab

Count

		Sample			
		S01	S04	S07	Total
EMBA for E. Coli 10-2	0	0	0	1	1
	2	0	1	0	1
	3	1	0	0	1
Total		1	1	1	3

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.982	.015	-5.196	.121[c]
Ordinal by Ordinal	Spearman Correlation	-1.000	.000[c]		
N of Valid Cases		3			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

EMBA for E. Coli 10-3 * Sample

Crosstab

Count

		Sample					
		S01	S02	S04	S05	S07	Total
EMBA for E. Coli 10-3	0	0	0	1	1	1	3
	1	1	1	0	0	0	2
Total		1	1	1	1	1	5

Symmetric Measures

		Value	Asymptotic Standard Error[a]	Approximate T[b]	Approximate Significance
Interval by Interval	Pearson's R	-.879	.061	-3.200	.049[c]
Ordinal by Ordinal	Spearman Correlation	-.866	.079	-3.000	.058[c]
N of Valid Cases		5			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.