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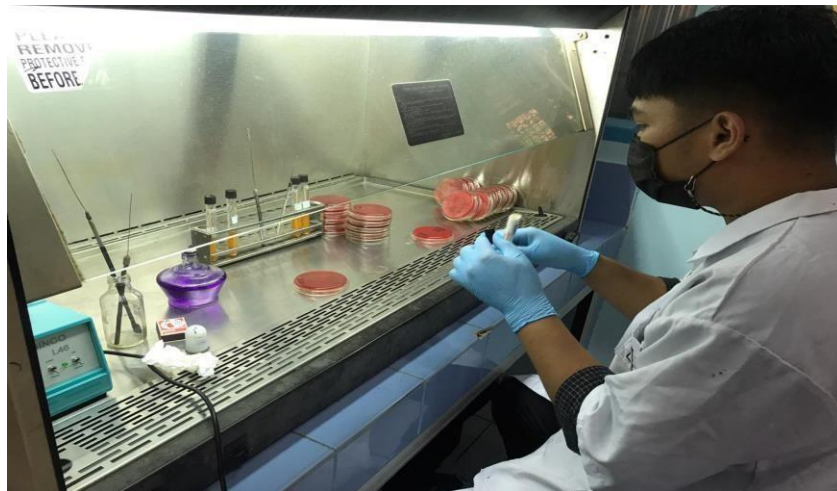
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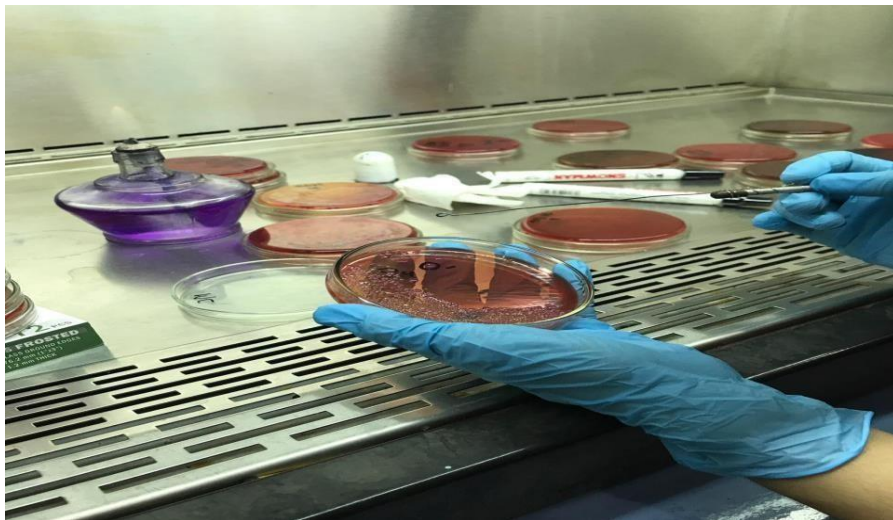
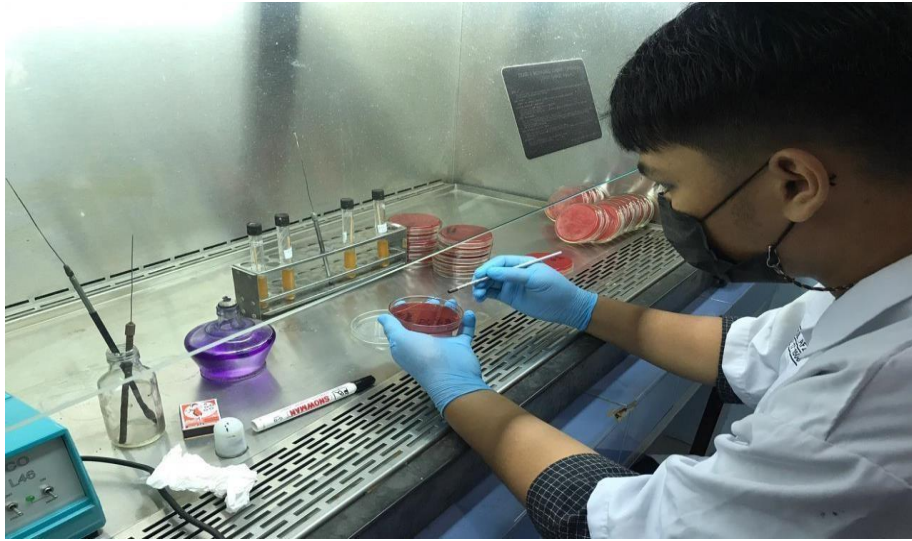
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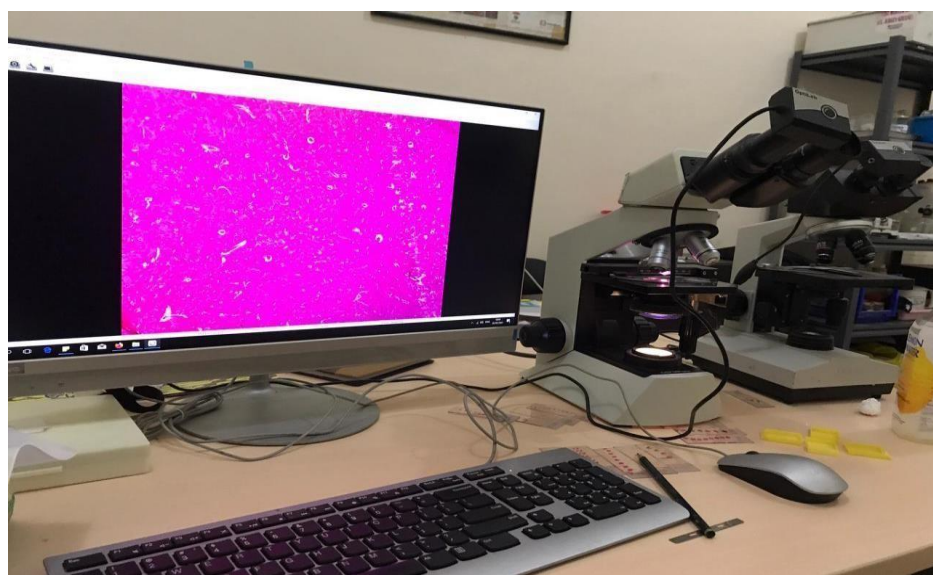
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## LAMPIRAN












ISOLATE REPORT: HatiDB1-1

RESULTS: Validated

Organism type: bacteria

Selected	Position	Acquisition Date	Results	Confidence	Information
✓	B4	2/18/21 2:07 PM	Klebsiella pneumoniae	 99.9%	None

ACTIONS

2/18/21 1:52 PM	labtech	Setup	VITEK <sup>®</sup> MS FLEXPREP
2/18/21 2:07 PM	VITEKMSACQ01	Acquire	
2/18/21 2:39 PM	labtech	Validate	Klebsiella pneumoniae

TRACEABILITY

Slide ID: DS184201446

SYSTEM VERSION

VITEK<sup>®</sup> MS Software Version: 1.0.0.46


KB Reference: refkb-full-7.6.0.7

Embedded KB Version: 3.2.0

ISOLATE REPORT: HatIDS1-1

RESULTS: Validated

Organism type: bacteria

Selected	Position	Acquisition Date	Results	Confidence	Information
✓	B1	2/18/21 2:05 PM	Klebsiella pneumoniae	 99.9%	None

ACTIONS

2/18/21 1:51 PM	labtech	Setup	VITEK® MS FLEXPREP
2/18/21 2:05 PM	VITEKMSACQ01	Acquire	
2/18/21 2:18 PM	labtech	Validate	Klebsiella pneumoniae

TRACEABILITY

Slide ID: DS184201446

SYSTEM VERSION

VITEK® MS Software Version: : 1.0.0.46


KB Reference: refkb-full-7.6.0.7

Embedded KB Version: 3.2.0

ISOLATE REPORT: HatiDS2-1

RESULTS: Validated

Organism type: bacteria

Selected	Position	Acquisition Date	Results	Confidence	Information
✓	B2	2/18/21 2:06 PM	Escherichia coli	 99.9%	None

ACTIONS

2/18/21 1:52 PM	labtech	Setup	VITEK <sup>®</sup> MS FLEXPREP
2/18/21 2:06 PM	VITEKMSACQ01	Acquire	
2/18/21 2:19 PM	labtech	Validate	Escherichia coli

TRACEABILITY

Slide ID: DS184201446

SYSTEM VERSION

VITEK<sup>®</sup> MS Software Version: : 1.0.0.46

KB Reference: refkb-full-7.6.0.7

Embedded KB Version: 3.2.0



**KEMENTERIAN KESEHATAN RI**  
DIREKTORAT JENDERAL PELAYANAN KESEHATAN  
**BALAI BESAR LABORATORIUM KESEHATAN MAKASSAR**



Jl. Perintis Kemerdekaan KM.11 Tamalanrea Makassar 90245

**HASIL PENELITIAN MAHASISWA**  
**21005495-2105499/LHU/BBLK-MKS/III/2021**

Nama : Hairul Afzan  
Universitas : Universitas Hasanuddin  
Fakultas/Jurusan : Kedokteran/Kedokteran Hewan  
Tanggal Penelitian : 19 Februari 2021  
Judul Penelitian : Identifikasi Bakteri Gram Negatif Serta Pengaruhnya Terhadap Histopatologi Organ Hati Pada Ikan Sapu-sapu (*Pterygoplichthys pardalis*) Di Danau Lapompakka dan Danu Sidenreng.  
Sampel : Hati Ikan Sapu-sapu  
Parameter : Identifikasi Bakteri  
Hasil Penelitian :

No. Lab	Jenis Sampel	Koloni	Pewarnaan Gram	Jenis Bakteri
21005495	Ginjal Ikan Danau Sidenreng	1	Bacilli Gram Negatif	<i>Klebsiella pneumoniae</i>
21005496		2	Bacilli Gram Negatif	<i>Escherichia coli</i>
21005497		3	Bacilli Gram Positif	-
21005498	Ginjal Ikan Danau Lapompakka	1	Bacilli Gram Negatif	<i>Klebsiella pneumoniae</i>
21005499		2	Bacilli Gram Negatif	<i>Proteus sp</i>

Catatan : 1. Hasil uji hanya berlaku untuk sampel yang di uji  
2. Laporan hasil uji ini terdiri dari 1 halaman  
3. Laporan hasil uji ini tidak boleh digandakan  
Kecuali secara lengkap dan seizin tertulis laboratorium penguji  
Balai Besar Laboratorium Kesehatan Makassar

Makassar, 16 Maret 2021  
Kepala Seksi Lab. Lingkungan

Arfaz Kartanegara, S. Farm  
NIP. 197804212000121002





Telp. 0411 586458, 586457, 586270 Fax. 0411 586270  
Surat Elektronik : bblk\_makassar@yahoo.com, bblk.mks@gmail.com



ISOLATE REPORT: HatiDB2-2

RESULTS: To Review

Organism type: bacteria

Selected	Position	Acquisition Date	Results	Confidence	Information
	E2	2/19/21 12:35 PM	Proteus vulgaris	 50.0%	None
	E2	2/19/21 12:35 PM	Proteus penneri	 50.0%	None

ACTIONS

2/19/21 12:23 PM	labtech	Setup	VITEK <sup>®</sup> MS FLEXPREP
2/19/21 12:35 PM	VITEKMSACQ01	Acquire	

TRACEABILITY

Slide ID: DS184201446

SYSTEM VERSION

VITEK<sup>®</sup> MS Software Version: : 1.0.0.46

KB Reference: Not Applicable

Embedded KB Version: 3.2.0



bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 11, 2021 16:28 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH1-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631496 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 4607734757564210

Organism Quantity: Selected Organism: *Klebsiella pneumoniae ssp pneumoniae*

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 11, 2021 16:28 SGT	Status: Final	Analysis Time: 5.78 hours
Organism Origin	VITEK 2		
Selected Organism	97% Probability <i>Klebsiella pneumoniae ssp pneumoniae</i> Bionumber: 4607734757564210 Confidence: Excellent identification		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s) <i>Klebsiella pneumoniae ssp pneumoniae</i> ADO(78),5KG(20).			

Biochemical Details																	
2	APPA	-	3	ADO	-	4	PyrA	+	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	-	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	-	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	+	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	+
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	-	44	AGAL	+	45	PHOS	+
46	GlyA	-	47	ODC	-	48	LDC	+	53	IHISa	-	56	CMT	+	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:



**KEMENTERIAN KESEHATAN RI**  
**DIREKTORAT JENDERAL PELAYANAN KESEHATAN**  
**BALAI BESAR LABORATORIUM KESEHATAN MAKASSAR**



Jl. Perintis Kemerdekaan KM.11 Tamalanrea Makassar 90245

**HASIL PENELITIAN MAHASISWA**  
**21011272 - 21011278/LHU/BBLK-MKSN/2021**

Nama : Hairul Afzan  
 Universitas : Universitas Hasanuddin  
 Fakultas/Jurusan : Kedokteran/Kedokteran Hewan  
 Tanggal Penelitian : 04 April 2021  
 Judul Penelitian : Identifikasi Bakteri Gram Negatif Serta Pengaruhnya Terhadap Histopatologi Organ Hati Pada Ikan Sapu-sapu (*Pterygoplichthys pardalis*) Di Danau Lapompakka dan Danu Sidenreng.  
 Sampel : Hati Ikan Sapu-sapu  
 Parameter : Identifikasi Bakteri  
 Hasil Penelitian :

No. Lab	Jenis Sampel	Koloni	Pewarnaan Gram	Jenis Bakteri
21011272	Hati Ikan Danau Lapompakka Sampel 1	1	Bacilli Gram Negatif	<i>Klebsiella pneumoniae ssp pneumoniae</i>
21011273	Hati Ikan Danau Lapompakka Sampel 2	1	Bacilli Gram Negatif	<i>Leclecia adecarboxylata</i>
21011274	Hati Ikan Danau Lapompakka Sampel 3	1	Bacilli Gram Negatif	<i>Enterobacter cloacae complex</i>
21011275		2	Coccus Gram Positif	-
21011276	Hati Ikan Danau Lapompakka Sampel 4	1	Bacilli Gram Negatif	<i>Enterobacter cloacae complex</i>
21011277		2	Bacilli Gram Negatif	<i>Citrobacter freundii</i>
21011278		3	Bacilli Gram Negatif	<i>Enterobacter aerogenes</i>

Catatan : 1. Hasil uji hanya berlaku untuk sampel yang di uji  
 2. Laporan hasil uji ini terdiri dari 1 halaman  
 3. Laporan hasil uji ini tidak boleh digandakan  
 Kecuali secara lengkap dan seizin tertulis laboratorium penguji  
 Balai Besar Laboratorium Kesehatan Makassar

Makassar, 27 Mei 2021  
 Kepala Seksi Lab.Lingkungan

  
 Arrez Kartanegara, S. Farm  
 NIP : 197804212000121002



bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 28, 2021 09:25 SGT  
Printed by: LabSuper

Patient Name: Khairul, Unhas  
Isolate: DBH2a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631499 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 4627731543531012  
Organism Quantity:

Selected Organism: *Leclercia adecarboxylata*

Biochemical Details																	
2	APPA	-	3	ADO	-	4	PyrA	+	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	+	26	LIP	-	27	PLE	-	29	TyrA	+	31	URE	-	32	dSOR	+
33	SAC	-	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	+	45	PHOS	-
46	GlyA	+	47	ODC	-	48	LDC	-	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	(-)	62	ELLM	-	64	ILATa	+			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 28, 2021 09:25 SGT  
Printed by: LabSuper

Patient Name: Khairul, Unhas  
Isolate: DBH2a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631499 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 4627731543531012

Organism Quantity:

Selected Organism: **Leclercia adecarboxylata**

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 8, 2021 01:31 SGT	Status: Final	Analysis Time: 9.98 hours
Organism Origin	VITEK 2		
Selected Organism	92% Probability <b>Leclercia adecarboxylata</b> Bionumber: 4627731543531012 Confidence: Low discrimination		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Low Discrimination Organism			
Lelliottia amnigena 2	IND(1),VP(99),Ornith.dec(99),		
Leclercia adecarboxylata	IND(99),VP(1),Ornith.dec(1),		
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Lelliottia amnigena 2	PLE(99),ODC(95),		
Leclercia adecarboxylata	dSOR(13),CIT(2),		

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 8, 2021 01:30 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH3a-1 (Qualified)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631498 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0627735551533212

Organism Quantity: Selected Organism: Low Discrimination

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 8, 2021 01:30 SGT	Status: Final	Analysis Time: 9.98 hours
Organism Origin	VITEK 2		
Selected Organism	Low Discrimination		
SRF Organism	Bionumber: 0627735551533212		Confidence: Low discrimination
Analysis Organisms and Tests to Separate:			
Low Discrimination Organism			
Enterobacter cloacae complex			
Enterobacter kobei	UREASE(83),LACTOSE(88),MOB(82),dSORBITOL(94),		
Enterobacter hormaechei	UREASE(87),MOB(52),dSORBITOL(0),		
Enterobacter cloacae ssp cloacae	UREASE(100),LACTOSE(30),MOB(99),dSORBITOL(100),		
Enterobacter cloacae ssp dissolvens	UREASE(100),MOB(0),dSORBITOL(100),		
Enterobacter ludwigii	UREASE(0),LACTOSE(60),MOB(100),dSORBITOL(100),		
Enterobacter asburiae	MOB(1),		
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Enterobacter cloacae complex	IMLTa(78),CMT(21),MNT(93),		

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

### Laboratory Report

Printed May 8, 2021 01:30 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH3a-1 (Qualified)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631498 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0627735551533212

Organism Quantity:

Selected Organism: Low Discrimination

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 8, 2021 01:30 SGT	Status: Final	Analysis Time: 9.98 hours
Enterobacter asburiae	AGAL(2),		

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

Page 2 of 3

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 8, 2021 01:30 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH3a-1 (Qualified)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631498 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0627735551533212

Organism Quantity: Selected Organism: Low Discrimination

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 8, 2021 01:30 SGT	Status: Final	Analysis Time: 9.98 hours
Organism Origin	VITEK 2		
Selected Organism	Low Discrimination		
SRF Organism	Bionumber: 0627735551533212		Confidence: Low discrimination
Analysis Organisms and Tests to Separate:			
Low Discrimination Organism			
Enterobacter cloacae complex			
Enterobacter kobei	UREASE(83),LACTOSE(88),MOB(82),dSORBITOL(94),		
Enterobacter hormaechei	UREASE(87),MOB(52),dSORBITOL(0),		
Enterobacter cloacae ssp cloacae	UREASE(100),LACTOSE(30),MOB(99),dSORBITOL(100),		
Enterobacter cloacae ssp dissolvens	UREASE(100),MOB(0),dSORBITOL(100),		
Enterobacter ludwigii	UREASE(0),LACTOSE(60),MOB(100),dSORBITOL(100),		
Enterobacter asburiae	MOB(1),		
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Enterobacter cloacae complex	IMLTa(78),CMT(21),MNT(93),		

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 7, 2021 21:20 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH4a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631490 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0607734553532010  
Organism Quantity:

Selected Organism: Enterobacter cloacae complex

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:20 SGT	Status: Final	Analysis Time: 5.82 hours
Organism Origin	VITEK 2		
Selected Organism	98% Probability Enterobacter cloacae complex		
	Bionumber: 0607734553532010	Confidence: Excellent identification	
SRF Organism			
Analysis Organisms and Tests to Separate:			
Enterobacter cloacae complex			
Enterobacter kobei UREASE(83),LACTOSE(88),MOB(82),dSORBITOL(94),			
Enterobacter hormaechei UREASE(87),MOB(52),dSORBITOL(0),			
Enterobacter cloacae ssp cloacae UREASE(100),LACTOSE(30),MOB(99),dSORBITOL(100),			
Enterobacter cloacae ssp dissolvens UREASE(100),MOB(0),dSORBITOL(100),			
Enterobacter ludwigii UREASE(0),LACTOSE(60),MOB(100),dSORBITOL(100),			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:



BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 8, 2021 01:30 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH3a-1 (Qualified)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631498 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0627735551533212  
Organism Quantity:

Selected Organism: Low Discrimination

Biochemical Details																	
2	APPA	-	3	ADO	-	4	PyrA	-	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	+	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	-	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	-	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	+	45	PHOS	(-)
46	GlyA	+	47	ODC	+	48	LDC	-	53	IHISa	-	56	CMT	+	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	(+)			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

Page 3 of 3

BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 7, 2021 21:20 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DBH4b-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631493 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 4615711557521001

Organism Quantity:

Selected Organism: Citrobacter freundii

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:20 SGT	Status: Final	Analysis Time: 5.82 hours
Organism Origin	VITEK 2		
Selected Organism	91% Probability Citrobacter freundii Bionumber: 4615711557521001		
SRF Organism	Confidence: Good identification		
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s) Citrobacter freundii BGLU(7),MNT(1),dCEL(7).			

Biochemical Details

2	APPA	-	3	ADO	-	4	PyrA	+	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	+	11	BNAG	-	12	AGLTp	-	13	dGLU	+	14	GGT	-	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	-	22	BAlap	-
23	ProA	+	26	LIP	-	27	PLE	(-)	29	TyrA	+	31	URE	-	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	+
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	-	44	AGAL	+	45	PHOS	(-)
46	GlyA	+	47	ODC	-	48	LDC	-	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	-	59	GGAA	-	61	IMLTa	-	62	ELLM	+	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

Laboratory Report

Printed May 7, 2021 21:20 SGT  
Autoprint

bioMérieux Customer:  
System #: 11530

Patient Name: Khairul, Unhas  
Isolate: DBH4a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631490 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0607734553532010

Organism Quantity:

Selected Organism: Enterobacter cloacae complex

Biochemical Details																	
2	APPA	-	3	ADO	-	4	PyrA	-	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	(-)	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	-	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	-	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	+	45	PHOS	-
46	GlyA	-	47	ODC	+	48	LDC	-	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

Page 2 of 2



**KEMENTERIAN KESEHATAN RI**  
**DIREKTORAT JENDERAL PELAYANAN KESEHATAN**  
**BALAI BESAR LABORATORIUM KESEHATAN MAKASSAR**

Jl. Perintis Kemerdekaan KM.11 Tamalanrea Makassar 90245



**HASIL PENELITIAN MAHASISWA**  
**21011261 - 21011271/LHU/BBLK-MKS/2021**

Nama : Hairul Afzan  
 Universitas : Universitas Hasanuddin  
 Fakultas/Jurusan : Kedokteran/Kedokteran Hewan  
 Tanggal Penelitian : 04 April 2021  
 Judul Penelitian : Identifikasi Bakteri Gram Negatif Serta Pengaruhnya Terhadap Histopatologi Organ Hati Pada Ikan Sapu-sapu (*Pterygoplichthys pardalis*) Di Danau Lapompakka dan Danu Sidenreng.  
 Sampel : Hati Ikan Sapu-sapu  
 Parameter : Identifikasi Bakteri  
 Hasil Penelitian :

No. Lab	Jenis Sampel	Koloni	Pewarnaan Gram	Jenis Bakteri
21011261	Hati Ikan Danau Sidenreng Sampel 1	1	Bacilli Gram Negatif	<i>Klebsiella pneumoniae ssp pneumoniae</i>
21011262		2	Bacilli Gram Negatif	<i>Acinetobacter baumannii</i>
21011263	Hati Ikan Danau Sidenreng Sampel 2	1	Bacilli Gram Negatif	<i>Aeromonas sobria</i>
21011264		2	Bacilli Gram Positif	-
21011265		3	Coccus Gram Positif	-
21011266	Hati Ikan Danu Sidenreng Sampel 3	1	Bacilli Gram Positif	-
21011267		2	Coccus Gram Positif	-
21011268		3	Coccus Gram Positif	-
21011269	Hati Ikan Danau Sidenreng Sampel 4	1	Bacilli Gram Negatif	<i>Enterobacter cloacae complex</i>
21011270		2	Bacilli Gram Negatif	<i>Klebsiella pneumoniae ssp pneumoniae</i>
21011271		3	Bacilli Gram Positif	-

Catatan : 1. Hasil uji hanya berlaku untuk sampel yang di uji  
 2. Laporan hasil uji ini terdiri dari 1 halaman  
 3. Laporan hasil uji ini tidak boleh digandakan  
 Kecuali secara lengkap dan seizin tertulis laboratorium penguji  
 Balai Besar Laboratorium Kesehatan Makassar

Makassar, 27 Mei 2021  
 Kepala Seksi Lab. Lingkungan  
  
 Atraz Kartanegara, S. Farm  
 NIP. 197804212000121002



Telp. 0411 586458, 586457, 586270 Fax. 0411 586270  
 Surat Elektronik : bblk\_makassar@yahoo.com, bblk\_mksr@gmail.com

Dipindai dengan CamScanner



BBLK MAKASSAR

Laboratory Report

Printed May 7, 2021 21:20 SGT  
Autoprint

bioMérieux Customer:  
System #: 11530

Patient Name: Khairul, Unhas  
Isolate: DBH4c-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631494 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 6627735773577010  
Organism Quantity:

Selected Organism: Enterobacter aerogenes

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:20 SGT	Status: Final	Analysis Time: 5.82 hours
Organism Origin	VITEK 2		
Selected Organism	94% Probability Enterobacter aerogenes		Confidence: Very good identification
	Bionumber: 6627735773577010		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Enterobacter aerogenes URE(1),dTAG(16).			

Biochemical Details																	
2	APPA	-	3	ADO	+	4	PyrA	+	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	+	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	+	32	dSOR	+
33	SAC	+	34	dTAG	+	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	+	45	PHOS	+
46	GlyA	+	47	ODC	+	48	LDC	+	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

Laboratory Report

Printed May 7, 2021 21:18 SGT  
Autoprint

bioMérieux Customer:  
System #: 11530

Patient Name: Khairul, Unhas  
Isolate: DSH1b-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631504 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0201010102500212  
Organism Quantity:

Selected Organism: *Acinetobacter baumannii*

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:18 SGT	Status: Final	Analysis Time: 5.87 hours
Organism Origin	VITEK 2		
Selected Organism	99% Probability <i>Acinetobacter baumannii</i>		Confidence: Excellent identification
	Bionumber: 0201010102500212		
SRF Organism			
Analysis Organisms and Tests to Separate: <i>Acinetobacter baumannii</i> 44C(99),41C(99).			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details																	
2	APPA	-	3	ADO	-	4	PyrA	-	5	IARL	-	7	dCEL	+	9	BGAL	-
10	H2S	-	11	BNAG	-	12	AGLtp	-	13	dGLU	+	14	GGT	-	15	OFF	-
17	BGLU	-	18	dMAL	-	19	dMAN	-	20	dMNE	+	21	BXYL	-	22	BAlap	-
23	ProA	-	26	LIP	-	27	PLE	-	29	TyrA	+	31	URE	-	32	dSOR	-
33	SAC	-	34	dTAG	-	35	dTRE	-	36	CIT	-	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	-	44	AGAL	-	45	PHOS	-
46	GlyA	-	47	ODC	-	48	LDC	-	53	IHISa	-	56	CMT	+	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	+			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 7, 2021 19:22 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DSH1a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631505 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 6607734753564000

Organism Quantity: Selected Organism: *Klebsiella pneumoniae ssp pneumoniae*

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 19:22 SGT	Status: Final	Analysis Time: 3.92 hours
Organism Origin	VITEK 2		
Selected Organism	99% Probability <i>Klebsiella pneumoniae ssp pneumoniae</i> Bionumber: 6607734753564000 Confidence: Excellent identification		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details

2	APPA	-	3	ADO	+	4	PyrA	+	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	-	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAIap	-
23	ProA	-	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	+	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	-	44	AGAL	+	45	PHOS	+
46	GlyA	-	47	ODC	-	48	LDC	+	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	-	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 7, 2021 21:18 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DSH2a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631503 Testing Instrument: 000015F277A8 (11530)

Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 5425617141410231

Organism Quantity:

Selected Organism: *Aeromonas sobria*

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:18 SGT	Status: Final	Analysis Time: 5.87 hours
Organism Origin	VITEK 2		
Selected Organism	94% Probability <i>Aeromonas sobria</i>		Confidence: Very good identification
	Bionumber: 5425617141410231		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
<i>Aeromonas sobria</i> SAC(90),PLE(18).			

Biochemical Details																	
2	APPA	+	3	ADO	-	4	PyrA	+	5	IARL	-	7	dCEL	-	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	-	15	OFF	+
17	BGLU	-	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	-	22	BAIap	-
23	ProA	+	26	LIP	+	27	PLE	+	29	TyrA	+	31	URE	-	32	dSOR	-
33	SAC	-	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	-	39	5KG	-
40	ILATk	-	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	-	45	PHOS	-
46	GlyA	-	47	ODC	-	48	LDC	-	53	IHISa	-	56	CMT	+	57	BGUR	-
58	O129R	+	59	GGAA	+	61	IMLTa	-	62	ELLM	+	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:



BBLK MAKASSAR

Laboratory Report

Printed May 7, 2021 21:17 SGT  
Autoprint

bioMérieux Customer:  
System #: 11530

Patient Name: Khairul, Unhas  
Isolate: DSH4a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631492 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0625734453532010  
Organism Quantity:

Selected Organism: Enterobacter cloacae complex

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:17 SGT	Status: Final	Analysis Time: 5.85 hours
Organism Origin	VITEK 2		
Selected Organism	99% Probability Enterobacter cloacae complex		
	Bionumber: 0625734453532010	Confidence: Excellent identification	
SRF Organism			
Analysis Organisms and Tests to Separate:			
Enterobacter cloacae complex			
Enterobacter kobei	UREASE(83),LACTOSE(88),MOB(82),dSORBITOL(94),		
Enterobacter hormaechei	UREASE(87),MOB(52),dSORBITOL(0),		
Enterobacter cloacae ssp cloacae	UREASE(100),LACTOSE(30),MOB(99),dSORBITOL(100),		
Enterobacter cloacae ssp dissolvens	UREASE(100),MOB(0),dSORBITOL(100),		
Enterobacter ludwigii	UREASE(0),LACTOSE(60),MOB(100),dSORBITOL(100),		
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

Laboratory Report

Printed May 7, 2021 21:18 SGT  
Autoprint

bioMérieux Customer:  
System #: 11530

Patient Name: Khairul, Unhas  
Isolate: DSH2a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631503 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 5425617141410231

Organism Quantity:

Selected Organism: *Aeromonas sobria*

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 21:18 SGT	Status: Final	Analysis Time: 5.87 hours
Organism Origin	VITEK 2		
Selected Organism	94% Probability <i>Aeromonas sobria</i>		Confidence: Very good identification
	Bionumber: 5425617141410231		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s) <i>Aeromonas sobria</i> SAC(90),PLE(18).			

Biochemical Details																	
2	APPA	+	3	ADO	-	4	PyrA	+	5	IARL	-	7	dCEL	-	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	-	15	OFF	+
17	BGLU	-	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	-	22	BAlap	-
23	ProA	+	26	LIP	+	27	PLE	+	29	TyrA	+	31	URE	-	32	dSOR	-
33	SAC	-	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	-	39	5KG	-
40	ILATk	-	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	-	45	PHOS	-
46	GlyA	-	47	ODC	-	48	LDC	-	53	IHISa	-	56	CMT	+	57	BGUR	-
58	O129R	+	59	GGAA	+	61	IMLTa	-	62	ELLM	+	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

bioMérieux Customer:  
System #: 11530

Laboratory Report

Printed May 7, 2021 19:20 SGT  
Autoprint

Patient Name: Khairul, Unhas  
Isolate: DSH4b-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631491 Testing Instrument: 000015F277A8 (11530)

Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 6607734753564010

Organism Quantity: Selected Organism: *Klebsiella pneumoniae ssp pneumoniae*

Comments:	

McFarland: (0.50 - 0.63)

Identification Information	Card: GN	Lot Number: 2411435203	Expires: Oct 31, 2021 12:00 SGT
	Completed: May 7, 2021 19:20 SGT	Status: Final	Analysis Time: 3.90 hours
Organism Origin	VITEK 2		
Selected Organism	99% Probability <i>Klebsiella pneumoniae ssp pneumoniae</i> Bionumber: 6607734753564010 Confidence: Excellent identification		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details																	
2	APPA	-	3	ADO	+	4	PyrA	+	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	-	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	-	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	+	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	-	44	AGAL	+	45	PHOS	+
46	GlyA	-	47	ODC	-	48	LDC	+	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

BBLK MAKASSAR

Laboratory Report

Printed May 7, 2021 21:17 SGT  
Autoprint

bioMérieux Customer:  
System #: 11530

Patient Name: Khairul, Unhas  
Isolate: DSH4a-1 (Approved)

Patient ID: 07052021

Card Type: GN Bar Code: 2411435203631492 Testing Instrument: 000015F277A8 (11530)  
Setup Technologist: Laboratory Supervisor(LabSuper)

Bionumber: 0625734453532010  
Organism Quantity:

Selected Organism: Enterobacter cloacae complex

Biochemical Details																	
2	APPA	-	3	ADO	-	4	PyrA	-	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	-	15	OFF	+
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	-	26	LIP	-	27	PLE	+	29	TyrA	-	31	URE	-	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	+	45	PHOS	(-)
46	GlyA	-	47	ODC	+	48	LDC	-	53	IHISa	-	56	CMT	-	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 08.01  
MIC Interpretation Guideline:  
AES Parameter Set Name:

Therapeutic Interpretation Guideline:  
AES Parameter Last Modified:

Page 2 of 2