

JENIS UJIAN MENGIKUT PENYAKIT DAN JENIS KERJA

BIL	SEKSYEN	JENIS UJIAN	PENYAKIT	JENIS KERJA											
				RUJUKAN	SALT	SURVELAN	VAKSIN	DIAGNOSTIK	MONITORING	PROGRAM KAWALAN	IMPOT DAN EKSPOT	R&D	PERGERAKAN HAIWAN	KAWALAN MUTU	
1.	Bakteriologi Mamalia	Pengasingan bakteria	Salmonellosis		✓				✓	✓		✓		✓	
		Pengasingan bakteria	Pasteurellosis	✓			✓	✓							
		Pengasingan bakteria	Tuberculosis	✓				✓							
		Pengasingan bakteria	Colibacillosis/ <i>E.coli</i>					✓	✓			✓	✓		
		Pengasingan bakteria	Melioidosis	✓				✓	✓						
		Pengasingan bakteria	Strangles						✓			✓			
		Pengasingan bakteria	Glanders									✓			
		Pengasingan bakteria	Johnes					✓							
		Pengasingan bakteria	Manhaemiosis				✓	✓							
		Pengasingan bakteria	Leptospirosis	✓				✓							
		Pengasingan bakteria	Brucellosis	✓				✓							
		Pengasingan bakteria	Caseous lymphadenitis/ <i>Corynebacterium</i>	✓				✓							
		Pengasingan bakteria	<i>Streptococcus</i>					✓							
		Pengasingan bakteria	Mastitis/ <i>Staphylococcus</i>					✓							
		Pengasingan bakteria	Listeriosis					✓							
		Pengasingan bakteria	Clostridium					✓							
		Pengasingan bakteria	Vancomycin Resistant <i>Enterococcus</i> (VRE)					✓							
Pengasingan bakteria	<i>Bacillus</i> sp.					✓		✓			✓	✓			

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				RUJUKAN	SALT	SURVELAN	VAKSIN	DIAGNOSTIK	MONITORING	PROGRAM KAWALAN	IMPOT DAN EKSPOT	R&D	PERGERAKAN HAIWAN	KAWALAN MUTU		
		Pengasingan bakteria	<i>Aeromonas sp.</i> <i>Alcaligenes sp.</i> <i>Micrococcus sp.</i> <i>Yersinia sp.</i> <i>Moraxella sp.</i> <i>Citrobacter sp.</i> <i>Actinomyces sp.</i> <i>Serratia sp.</i> <i>Shigella sp.</i> <i>Rhodoqoccus sp.</i> <i>Edwardsiella sp.</i> <i>Proteus sp.</i> <i>Branhamella sp.</i> <i>Flavobacterium sp.</i> <i>Chromobacterium sp.</i> <i>Pseudomonas sp.</i> <i>Enterobacter sp.</i>	√				√								
		Pengasingan bakteria	<i>Anthrax</i>					√								
		Pengasingan fungus	Aspergillosis					√	√				√			
		Pengasingan fungus	<i>Penicilium sp.</i> <i>Rhizopus sp.</i> <i>Mucor sp.</i> <i>Codesprorium sp.</i> <i>Trichosporon sp.</i> <i>Yeast sp.</i> <i>Gliocladium sp.</i> <i>Trichosphyton sp.</i> <i>Rhizomucor sp.</i> <i>Geotricum sp.</i> <i>Chrysosporium sp.</i>					√	√				√			
		Serotyping	Salmonellosis	√				√	√							
			Colibacillosis / <i>E.coli</i>	√					√	√						
			Pasteurellosis	√				√	√							
		PCR	Tuberculosis	√				√				√				
			Leptospirosis	√					√							
			Brucellosis	√					√							

BIL	SEKSYEN	JENIS UJIAN	PENYAKIT	JENIS KERJA										KAWALAN MUTU	
				RUJUKAN	SALT	SURVELAN	WAKSIN	DIAGNOSTIK	MONITORING	PROGRAM KAWALAN	IMPOT DAN EKSPOT	R&D	PERGERAKAN HAIWAN		
			Pasteurellosis	✓			✓	✓							
			Q Fever	✓				✓	✓						
			Johnes	✓				✓							
			Strangles					✓							
		Total Plate Count	Milk Meat water							✓				✓	
		Coliform Count	Milk Meat water							✓				✓	
		MPN Count KAV	Milk Meat water							✓				✓	
		<i>E.coli</i> Count KAV	Milk Meat water							✓				✓	
		Salmonella KAV	Milk Meat water							✓				✓	
		EC O157 KAV	Milk Meat water							✓				✓	
2.	Parasitology	Direct fecal examination	Helminthiasis, coccidiosis					✓	✓						
		Flootation method	Helminthiasis					✓	✓						
		McMaster method	egg worm count					✓	✓	✓					
		Sedimentation method	Detection of trematode egg					✓	✓	✓					
		Fecal culture	Collection of L3										✓		
		Intestinal scrapping	Intestinal protozoa parasites					✓	✓						
		Total worm count	Helminthiasis										✓		
		Wet blood film	Blood parasites/ protozoa					✓	✓	✓					
		Buffy coat examination	Blood parasites/ protozoa					✓	✓			✓		✓	
		Thick blood smear	Blood parasites/ protozoa					✓	✓	✓		✓			
		Thin blood smear	Blood parasites/ protozoa					✓	✓	✓		✓			
		Impression organ	Blood parasites/					✓	✓						

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		smear	protozoa in tissues														
		Squash organ smear	Blood parasites/ protozoa in tissues and brain					√	√								
		Blood profile/ picture	Blood parameter					√	√	√	√						
		Endoparasites identification	Helminthiasis					√	√								
		Ectoparasites / flies identification	Parasites / vector					√	√				√				
		Trapping flies	Blood parasites										√				
3.	Avian Virology	RT-PCR	Avian Influenza (AI)	√				√	√	√	√	√	√				
		RT-PCR	Newcastle Disease (ND)	√				√	√	√	√	√	√				
		RT-PCR	Infectious Bronchitis (IB)	√				√						√			
		RT-PCR	Infectious Bursal Disease (IBD)	√				√						√			
		RT-PCR	Reovirus					√						√			
		RT-PCR	Duck Viral Hepatitis (DVH)	√				√									
		RT-PCR	Avian Encephalitis (AE)					√									
		RT-PCR	Egg Drop Syndromme (EDS)					√									
		RT-PCR	Swollen Head Syndrome (SHS)	√				√									
		PCR	Adenovirus					√									
		PCR	Infectious Laryngotracheitis (ILT)					√							√		
		PCR	Chicken Anemia Virus (CAV)					√		√							
		PCR	Fowl Pox (FP)					√									
		PCR	Marek's	√				√									
		PCR	Avian Leukosis Virus (ALV)	√				√		√					√		
		PCR	Derzy's					√									
		PCR	Duck Parvo					√		√					√		
		Real Time RT-PCR	Avian Influenza	√						√							

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				RUJUKAN	SALT	SURVELAN	WAKSIN	DIAGNOSTIK	MONITORING	PROGRAM KAWALAN	IMPOT DAN EKSPOT	R&D	PERGERAKAN HAIWAN		
			(AI)												
		Real Time RT-PCR	Newcastle Disease (ND)	√							√				
		Isolation	Avian Influenza (AI)		√	√		√	√						
		Isolation	Newcastle Disease (ND)		√	√		√	√						
		Isolation	Infectious Bronchitis (IB)					√	√						
		Isolation	Egg Drop Syndromme (EDS)					√	√						
		Isolation	Duck Viral Hepatitis (DVH)					√	√						
		Isolation	Infectious Bursal Disease (IBD)					√	√						
		Isolation	Infectious Laryngotracheitis (ILT)					√	√						
		Isolation	Fowl Pox (FP)					√	√						
		Isolation	Reovirus					√	√						
		Isolation	Avian Encephalitis (AE)					√	√						
		Isolation	Adenovirus					√	√						
		DNA Sequencing	Various	√				√					√		
		Serologi HI	Avian Influenza (AI)							√					
		Serologi HI	Newcastle Disease (ND)				√			√					
		Serologi HI	Egg Drop Syndromme (EDS)							√					
		Serologi AGPT	Duck Viral Hepatitis							√					
		Serologi AGPT	Infectious Bursal Disease							√					
		Serologi AGPT	Infectious Laryngotracheitis							√					
		Serologi AGPT	Fowl Pox							√					
		Serologi AGPT	Avian Encephalomyelitis							√					
		Serologi AGPT	Adenovirus							√					
		Serologi AGPT	Reovirus							√					
		Serologi AGPT	Swollen Head							√					

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				RUJUKAN	SALT	SURVELAN	VAKSIN	DIAGNOSTIK	MONITORING	PROGRAM KAWALAN	IMPOT DAN EKSPOT	R&D	PERGERAKAN HAIWAN		
			Syndrome												
		Serologi AGPT	Duck Viral Enteritis							√					
4.	Biokimia	Total solids	Milk quality												√
		Ammonia, Chloride, Chlorine, Copper, Iron, Nitrate, Sulfate, Zinc , pH	Water quality							√					√
		Dry matter, Crude protein, Crude fat, Crude fiber, Total ash, Calcium, Phosphorus	Feed quality							√			√		√
		Alanine aminotransferase, Aspartate aminotransferase, Alkaline phosphatase, Albumin, Ammonia, Amylase, Cholesterol, Creatinine, Creatine kinase, Gamma-glutamyltransferase, Glucose, Inorganic phosphate, Lactate dehydrogenase, Total bilirubin, Total protein, Triglycerides, Urea,	Clinical chemistry							√			√		

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		Calcium, Magnesium, Potassium															
		Aflatoxin	Aflatoxicosis					✓							✓		
5.	Serology	Complement Fixation Test (CFT)	Bovine Brucellosis			✓		✓	✓	✓	✓	✓		✓			
			Caprine and Ovine Brucellosis			✓		✓	✓	✓	✓	✓	✓		✓		
			Johne's			✓		✓	✓	✓	✓	✓	✓	✓	✓		
			Melioidosis			✓		✓	✓	✓	✓	✓	✓	✓	✓		
		Agar Gel Immunodiffusion (AGID)	Caseous Lymphadenitis			✓		✓	✓	✓	✓		✓	✓			
		Serum Agglutination Test	Salmonellosis			✓				✓					✓		
		Rose Bengal Plate Test	Brucellosis			✓				✓							
		Microscopic Agglutination Test (MAT)	Leptospirosis			✓		✓		✓	✓	✓			✓		
		Milk Ring Test	Brucellosis					✓									
6.	Pathology	PM		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		Rabies		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		Histo		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
7.	Mikroorganisma Khas	Isolation and identification of Mycoplasma	Mycoplasmosis	✓				✓									
		Isolation and identification of <i>Avibacterium paragallinarum</i>	Infectious Coryza	✓				✓									
		Isolation and identification of <i>Actinobacillus pleuropneumonia</i>	Porcine pleuropneumonia	✓				✓									
		Antibody detection of <i>Mycoplasma gallisepticum</i> – SRPAT	Mycoplasmosis							✓							
		Antibody detection of avian Salmonella-SRPAT	Avian Salmonellosis							✓							
8.	Immunoassay	ELISA	Nipah			✓					✓		✓				

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		ELISA	HS			✓		✓	✓	✓			✓		
		ELISA (bekalan kit)	Semua jenis penyakit Veterinar			✓	✓	✓	✓	✓	✓	✓	✓		
9.	Virologi Mamalia	Viral isolation	Viral diseases	✓			✓								
			EHV				✓								
			JE				✓								
			BVD	✓			✓								
			IBR	✓			✓								
			BTV				✓								
			AD	✓			✓								
			PRRS	✓			✓								
		AGID	EIA									✓			
			BTV	✓		✓	✓	✓	✓	✓	✓		✓		
			CAE	✓		✓	✓	✓	✓	✓	✓		✓		
		SNT	BVD			✓		✓	✓	✓	✓			✓	
			IBR			✓		✓		✓	✓			✓	
		WB	EHV									✓			
			WEE									✓			
		RT-PCR	BSE	✓											
			BVD	✓				✓							
			PPR					✓							
			BTV	✓				✓							
			NIPAH					✓							
			PRRS	✓				✓							
			CSF					✓							
			TGE	✓				✓							
			SIV					✓							
			PED					✓							
			RABIES	✓				✓							
			RV(A,B,C)					✓							
			JE					✓							
			FCoV					✓							
			CDV					✓							
AHS						✓									
EHD						✓									
EIV					✓										
PCR	IBR	✓				✓									

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			CAE	√			√							
			AD	√			√							
			PCV ₂	√			√							
			MCF				√							
			CPV				√							
			ADENOVIRUS				√							
			CE				√							
			ASF				√							
			PPV				√							
			EHV				√							