

Supplementary Materials: Risk factors of Extended-Spectrum β -Lactamase producing Enterobacteriaceae occurrence in farms in Reunion, Madagascar and Mayotte Islands, 2016–2017

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Name and code of the farmer : Territory :

Date : / / 16

Animal species	Herd size

Building

Presence of a water source near	River	Pond	Purification station or other	None	
If yes, distance from the farm	<100m	>100m			
Closed building	Yes	No			
Concrete access to building	Yes	No			
More than one building	Yes	No			
if Yes Building number in the exploitation	1	2	≥ 2		
Age of the livestock exploitation					
Other livestock species in the farm	No	Cow	Pig	Poultry	Other :.....
Distance from another farm (same species)	< 500 m		> 500 m		
Distance from another farm (other species raised)	< 500 m		> 500 m		
If Yes Type of species	Cow		Pig	Other :	
Vegetable production on the farm	Yes	No	Type :		
Clean condition around the farm	Yes	No			

Hygiene and biosecurity

Hygiene measure				
Presence of a vestibule at building entrance	Yes	No		
Boot bath at building entrance	Yes	No		
Presence of a lavabo closeby	Yes	No	Showers ?	
Change of work clothes at building entrance	Yes	No		
Change of shoes/boots at building entrance	Yes	No		
Clothes and shoes	Durdy	Clean		
Entrance frequency in the building by day	≤3	4	>4	
Other farmers visiting the exploitation	Yes	No		
Share equipement with an other exploitation	Yes	No		
Share workers with an other exploitation	Yes	No		
Boot bath at building entrance	Yes	No		
Respect of biosecurity measures	Yes	No		
Rendering				
Management of dead livestock	Consumption	Buried	Burned	Thrown
Water				
Type of water used in the exploitation	Public	River	Rain	
			Other: well, etc.	
Water storage presence	Yes	No		
Potable quality control	Yes	No		
Water filtration	Yes	No		
Water treatment	Yes	No		
Water quality control	Yes	No		
Cleaning of water pipes	Yes	No	No pipes	
Vector control				
Rodent presence	Yes	No		
Rodent control	None	By farmer	By a society	
If yes Type of control	Poison	Traps	Other :	
Clearing around the farm	Yes	No		
Desinfestation	Yes	No		
Pet presence in the farm	Yes	No	Species :	
Could bird enter the building	Yes	No		
Presence of flies	Elevated	Moderate		
Quarantine				
If buying breeding stock				
Quarantine before entering the stock	Yes	No		
Quarantaine in a different building	Yes (>50m)	Yes (10-50m)	No	

All in all out practice	Yes	No	
Cleaning before next batch	Yes	No	
Effluents			
Manure storage on exploitation	Yes		No
Spreading of the manure on the exploitation	Yes		No
Si Yes			
Distance from the farm			
Spreading of the manure on another farm	Yes		No
Cleaning and disinfection			
Scraping manure	Yes	No	
Soaking surface	Yes	No	
Water use for cleaning	Public	River	rain Other :
Detergent use for cleaning	Yes	No	
Cleaned surfaces	Ground	Ceiling	Wall
		Through	
Application	Bucket	Sprayer	Lather Other :
Pickling	Yes	No	
Lightning in the building	Good	Moderate	Bad
Crawlspace	Yes	No	
Two desinfectations	Yes	No	
Clean condition around the farm	Clean	Durty	

B – Antibiotic use :

➤ **Motivation :** Therapeutic Prophylactic

Last antibiotic treatment : <1 year >1 year

Antibiotic use in : previous livestock sampled one