

- 1 S1: ESBL genes of investigated (PCR and sequencing) *E. coli* isolates obtained from either single
- 2 animal samples or samples of animals' environment out of seven German broiler fattening farms

farm no.	sampling date	ESBL-gene	ESBL origin	
1	1 st sampling	CMY & TEM-1	cloaca swab; faeces; boot swab; litter	
		single CTX-M	dust	
	2 nd sampling	CMY & TEM-1	cloaca swab; faeces; boot swab; litter	
		single CMY	cloaca swab; dust	
	3 rd sampling	CMY & TEM-1	cloaca swab; dust	
		single CMY	cloaca swab; faeces	
		single TEM-1	cloaca swab; boot swab; litter	
	2	1 st sampling	CMY & TEM-1	cloaca swab
			single CMY	faeces; dust
2 nd sampling		CMY & TEM-1	cloaca swab	
		single TEM-1	cloaca swab; faeces; litter; boot swab; dust	
3 rd sampling		CMY & TEM-1	cloaca swab	
		single CMY	cloaca swab	
		single TEM-1	cloaca swab; faeces; litter	
		single CTX-M	cloaca swab	
3		1 st sampling	single SHV-12	cloaca swab; boot swab
	CMY & TEM-1		cloaca swab	
	single TEM-52		cloaca swab	
	SHV-12 & TEM-1		cloaca swab	
	single CMY		litter; dust	
	2 nd sampling	single TEM-1	faeces	
		single CTX-M	dust; boot swab	
		single SHV-12	cloaca swab	
		CMY & TEM-1	cloaca swab	
	3 rd sampling	single TEM-52	cloaca swab; dust; faeces; environmental swab	
		single SHV-12	cloaca swab; faeces; environmental swab	
		CMY & TEM-1	cloaca swab	
		single TEM-1	cloaca swab	
		single CTX-M	cloaca swab	
		TEM-52 & SHV-12	cloaca swab	
single TEM-52	litter; boot swab; dust			
4	1 st sampling	single CMY	cloaca swab	

		single SHV-12	cloaca swab; faeces
		single CTX-M	cloaca swab; boot swab
		single TEM-52	cloaca swab; litter
	2 nd sampling	CMY & TEM-1	cloaca swab; environmental swab
		single SHV-12	cloaca swab
		single TEM-52	cloaca swab; faeces; litter; dust; boot swab;
	3 rd sampling	CMY & TEM-1	environmental swab
		single TEM-52	cloaca swab
		single CMY	cloaca swab; faeces; litter; boot swab
		single SHV-12	cloaca swab
		CMY & TEM-1	cloaca swab; environmental swab
		SHV-12 & TEM-1	cloaca swab
			cloaca swab; dust
5	1 st sampling	single CMY	cloaca swab; faeces; litter; dust; environmental
			swab
	2 nd sampling	single TEM-52	environmental swab
		CMY & TEM-1	boot swab; environmental swab
		single TEM-1	cloaca swab; faeces; litter
		single CTX-M	cloaca swab
		single CMY	cloaca swab; boot swab
	3 rd sampling	single TEM-1	cloaca swab; litter
		single TEM-52	dust
		CMY & TEM-1	environmental swab
6	1 st sampling	-----	-----
	2 nd sampling	single SHV-12	cloaca swab
		SHV-12 & CTX-M	cloaca swab
		SHV-12 & TEM-1	cloaca swab; dust
		CTX-M & CMY	cloaca swab
		single CMY	faeces; litter; boot swab
	3 rd sampling	CTX-M & TEM-1	litter
		single SHV-12	cloaca swab; environmental swab
		SHV-12 & CMY	cloaca swab
		&TEM-1	
		SHV-12 & TEM-1	cloaca swab; faeces; boot swab; environmental
			swab

7	1 st sampling	single SHV-12	cloaca swab; litter
		single CMY	cloaca swab; faeces
		SHV-12 & TEM-1	dust; environmental swab
	2 nd sampling	CMY & TEM-1	boot swab
		single CTX-M	cloaca swab; faeces; boot swab
	3 rd sampling	CMY & TEM-1	cloaca swab; litter; environmental swab
		single CTX-M	cloaca swab; faeces; dust; environmental swab
		single CMY	boot swab
			CMY & TEM-1