## SAMPLE COLLECTION GUIDE FOR THE DETECTION OF POULTRY RESPIRATORY PATHOGENS BY PCR



DISEASE	RECOMMENDED	SUBMIT TO LAB	SAMPLE POOL	RECOMMENDED BIRDS
	SAMPLE FOR PCRab			PER HOUSE
Avian Influenza (AI) &	Oropharyngeal /	Recommended sample	Up to 5 swabs in at least 3 ml BHI	Minimum 11 birds per
Newcastle Disease	Tracheal swabs in BHI		OR	house.
(ND)			Up to 11 swabs in at least 5 ml BHI	If high mortality: Minimum
				two, 11 swab pools.
Infectious	Tracheal swabs in BHI	Recommended sample	Up to 5 swabs in at least 3 ml BHI	Minimum 10 birds per
Laryngotracheitis (ILT)		OR	OR	house.
		Tracheas for sampling <sup>c</sup>	Minimum 10 full-length tracheas	
Avian	Sinus+Nasal turbinate /	Recommended sample	Up to 5 swabs in at least 3 ml BHI	Minimum 10 birds per
Metapneumovirus	Tracheal /	OR	OR	house.
(aMPV)	Oropharyngeal /	Heads with full-length	Up to 11 swabs in at least 5 ml BHI	Sample as soon as first
	Choanal cleft swabs in	necks for sampling <sup>c</sup> OR		clinical signs noticed.
	ВНІ	Tracheas for sampling <sup>c</sup>		Sample affected and
				unaffected houses.
Infectious Bronchitis	Tracheal /	Recommended sample	Up to 5 swabs in at least 3 ml BHI	Minimum 10 birds per
(IB)	Oropharyngeal /		OR	house.
	Choanal cleft swabs in		Up to 11 swabs in at least 5 ml BHI	
	BHI OR			
	Fresh tissue (Tracheas,		Pool fresh tissues in separate	
	Cecal tonsils, Kidneys)		Whirl-Pak® or Ziploc® bags	
M. gallisepticum (MG)	Tracheal / Choanal cleft	Recommended sample	Up to 5 swabs in at least 3 ml BHI	Minimum 30 birds per
&	swabs in BHI without		without antibiotics	house: 10 front, 10
M. synoviae (MS)	antibiotics OR			middle, 10 back of house
	Media-free transport		Media-free transport swabs	
	swabs		pooled at lab	

<sup>&</sup>lt;sup>a</sup>Use synthetic or semi-synthetic swabs (e.g. polyester, rayon, nylon) with a plastic handle and a flocked or spun head. Remove swab from BHI tube after inoculation and safely dispose of swabs.

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<sup>&</sup>lt;sup>b</sup>Package samples immediately after collection with frozen cold packs. Maintain the cold chain (4°C) until arrival at the lab the same day or next morning.

<sup>&</sup>lt;sup>c</sup>Lab sampling fee charged.