



**SERVICE DE DIAGNOSTIC**  
Faculté de médecine vétérinaire

Recipients : Customer in swine field  
 Sender : Diagnostic service  
 Date : 2017-05-12  
 Objet : **New services**

Dear customers,

The laboratory of swine bacterial serology, under the supervision of Dr. Marcelo Gottschalk, now offers the serotyping of *Haemophilus parasuis*, by multiplex PCR analysis. The method is based on the detection of capsular genes, and can be performed on pure bacterial strains. The direct use of this PCR on swabs from different organs, blood, and cerebrospinal fluid will be evaluated in the near future.

*H. parasuis* is one of the most important bacterial pathogens for swine and can induce different clinical conditions, including polyserositis (Glässer's disease). Serotyping of this pathogen is important to decide the vaccination strategy (mainly based on serotype-specific bacterins) to prevent future outbreaks. During the last years, using the indirect hemagglutination test as a serotyping method, a high percentage of untypable and/or cross-reacting strains have been reported elsewhere as well as in isolates from Canada. As shown in the table below, this PCR technique eliminates untypable and/or cross-reacting strains. In addition, it determines if many serotypes are present in the sample.

Serotype	PCR		Hemagglutination		Serotype	PCR		Hemagglutination	
	Number of isolates	%	Number of isolates	%		Number of isolates	%	Number of isolates	%
1	5	5.6	4	4.4	8	1	1.1	0	0.0
2	7	7.8	0	0.0	9	5	5.6	5	5.6
3	5	5.6	5	5.6	10	0	0.0	0	0.0
4	14	15.6	14	15.6	11	0	0.0	1	1.1
5	20	22.2	10	11.1	13	10	11.1	9	10.0
12		0.0	4	4.4	14	1	1.1	0	0.0
6	2	2.2	1	1.1	15	0	0.0	1	1.1
7	20	22.2	2	2.2	NT	0	0.0	34	37.8

For comments or questions, please contact us. We will be happy to answer you.

**Sonia Lacouture**

Lab Coordinator

[sonia.lacouture@umontreal.ca](mailto:sonia.lacouture@umontreal.ca)

450-773-8521 ext.8546

**Customer services**

Phone: 450-778-8151 (Direct line)

450-773-8521 ext. 8243

Fax : 450-778-8107

[service-diagnostic@medvet.umontreal.ca](mailto:service-diagnostic@medvet.umontreal.ca)

Diagnostic service

Faculté de Médecine Vétérinaire

Université de Montréal

3200, Sicotte street

Saint-Hyacinthe, Qc, J2S 2M2