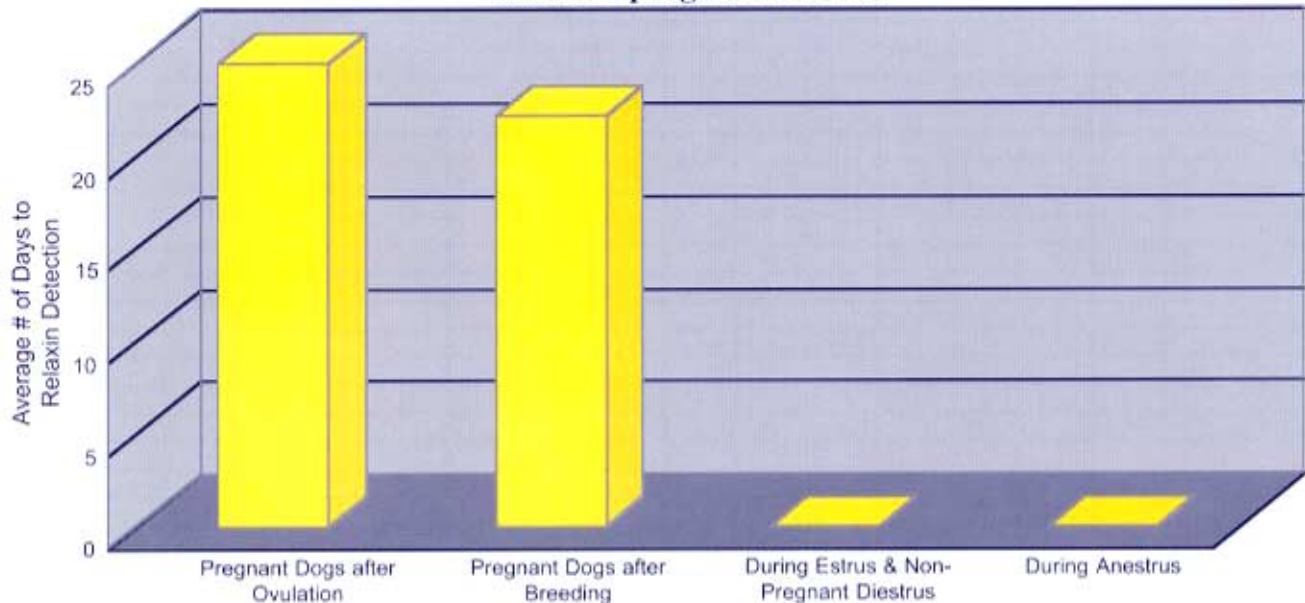


# ReproCHEK®

## Validation Information

### Relaxin Monitoring of Pregnant, and Non-pregnant Bitches



### Study Summary

	School of Veterinary Medicine Lyon, France	Synbiotics Corporation San Diego, California USA
Number of Pregnant Bitches	12	7
Average number of days to relaxin detection from ovulation	25	
Range*	21 to 27	
Average number of days from relaxin detection to parturition	40	
Range*	37 to 46	
Average number of days to relaxin detection from breeding		22
Range*		20 to 24
Average number of days from relaxin detection to parturition		39
Range*		38 to 40
Average litter size	7	7

\*Range due to natural variation in reproductive cycles, implantaion and intermittent sample testing.

### Conclusions:

- **Accurate** - ReproCHEK consistently indicates pregnancy status.
- **Specific** - No false positives in samples drawn from anestrus and non-pregnant diestrus bitches.
- **Reliable Early Pregnancy Detection** - ReproCHEK detects relaxin an average of 22 days post-breeding and 25 days post-ovulation.



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# ReproCHEK Trial Studies

Center for the Study of Canine Reproduction, Veterinary School, Lyon, France

Relaxin monitoring of 13 pregnant and 5 non-pregnant dogs

Day 0 = Day of ovulation (serum progesterone level reaching 10 ng/ml) - LH surge not determined

## ReproCHEK Results

Days	Pregnant												Non-pregnant				
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L21	L22	L23	L24	L25
-2						-											
-1								-							-		
0	-	-	-		-		-		-	-	-	-	-	-	-		-
1				-												-	
16	-	-					-						-				
17				-				-				-					-
18			-			-			-		-			-	-		
19					-			-					-			-	
20	-	-	-			-	-		-		-	-	-	-	-	-	-
21				-							-			-			
22		+	+		+		+		+		+	+	+	-		+	+
23	+	+		-	+	+		+									-
24				-		+	+				+		+	-			+
25			+					+	+	+	+	+			+	+	-
26	+	+	+		+	+		+			+			+	+	+	-
27				+				+					+				+
28		+						+			+						
29			+		+			+				+		-	+	-	+
30	+			+													
31						+											-
Day of Parturition	65	61	62	65	68	60	64	60	69	62	59	59	n/a	n/a	n/a	n/a	n/a
Litter Size	6	6	7	3	4	9	12	5	5	7	9	9	0	0	0	0	0
Detection after Ovulation	23	22	22	27	22	23	24	23	25	21	22	22	n/a	n/a	n/a	n/a	n/a
Detection from Parturition	-42	-39	-40	-38	-46	-37	-40	-37	-44	-43	-37	-37	n/a	n/a	n/a	n/a	n/a

## Synbiotics Corporation, San Diego, California USA

Relaxin monitoring of 7 pregnant and 3 non-pregnant beagles

Day 0 = Day of the first mating (ovulation time and LH surge not determined)

## ReproCHEK Results

Days	Pregnant							Non-pregnant		
	S1	S2	S3	S4	S5	S6	S7	S11	S12	S13
0				-	-	-		-		
2	-	-	-				-	-	-	-
17				+	+					
18	+	+	+			+		-	+	+
19							+			
20				+	+					
21	+	+	+			+	+	+	+	+
23				+	+		+			
24	+	+	+			+		-	-	+
27				+	+		+			
28	+	+	+			+		+	+	+
30				+	+		+			
32	+	+	+					+	-	-
34				+			+			
35	+	+	+					-	+	+
37				+						
38	+	+	+						-	+
42	+	+	+						-	-
Day of Parturition	60	62	63	59	60	63	63	n/a	n/a	n/a
Litter Size	9	7	8	6	5	8	6	0	0	0
Detection after Breeding	21	24	24	20	20	24	23	n/a	n/a	n/a
Detection from Parturition	-39	-38	-39	-39	-40	-39	-40	n/a	n/a	n/a