

Result certificate #012345

Maternity case

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic

Persons tested together

Person A

Sample: 08-12350 Name: Jiří Novák DEMO Birth date: 31.12.1962 Collection date: 03.03.2009 Date received: 03.03.2009 Sample type: blood Person B

Sample: 08-12380 Name: Jana Nováková DEMO Birth date: 31.12.1991 Collection date: 03.03.2009 Date received: 03.03.2009 Sample type: buccal swab

Person A	Person B	Maternity index PI
22/26	20/22	1.2842835130
11/13	11/13	3.2782638300
29/31.2	28/29	1.2817785750
19/20	20/24	1.9318006180
16/16	16/17	2.0599505560
10/12	12/13	0.7594927096
11/13	11/11	1.5357910910
11/12	11/13	0.9138340643
10/10	10/10	3.5851559700
8/10	8/12	0.4552157291
6/6	6/9.3	2.2226666670
13/14	11/14	1.1022927690
14/16	14/16	3.2827289520
15/17	15/16	2.2542831380
12/15	12/14	3.6175832130
X/Y	X/X	
Combined maternity index	2450.2965	
Probability of maternity (W)	99.95920526 %	
Priori probability 50 %		
	Person A 22/26 11/13 29/31.2 19/20 16/16 10/12 11/13 11/12 10/10 8/10 6/6 13/14 14/16 15/17 12/15 X/Y Combined maternity index Probability of maternity (W)	Person A Person B 22/26 20/22 11/13 11/13 29/31.2 28/29 19/20 20/24 16/16 16/17 10/12 12/13 11/13 11/11 11/13 11/11 11/12 11/13 11/12 11/13 11/10 10/10 8/10 8/12 6/6 6/9.3 13/14 11/14 14/16 14/16 15/17 15/16 12/15 12/14 X/Y X/X Combined maternity index 2450.2965 Probability of maternity (W) 99.95920526 %



Interpretation: Analysis was performed using Identifiler Plus (Thermo Fisher). The evaluation is based on microsatellite genotyping in terms of Mendel's laws of inheritance, Hardy–Weinberg equilibrium and on the use of Bayes' theorem and likelihood ratio. No matter how great is the weight of evidence in favour of the child-mother relationship in comparison with the maternity of an unknown woman, this test improves the result **2450**-fold. If the priori probability of maternity is 50 %, this test achieves the probability of **99.95920526** %, what can be considered as **maternity practically proven**.

The lab does not have the ability to check if the names of the individuals belongs to sampled persons. Proper identification and assignment of samples is in the responsibility of the tested persons.

Report date: 08.03.2009 Method: SOP165, fragment analysis of STR markers Approved by: Mgr. Martina Šafrová, Laboratory Manager

