

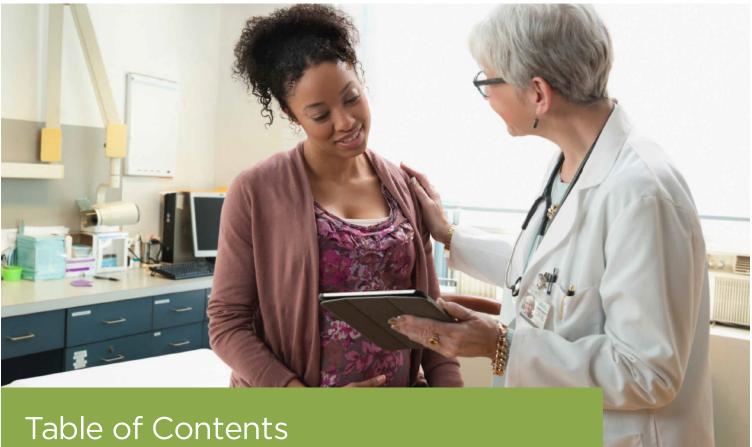


Harmony PRENATAL TEST Sample Reports:

Ariosa Diagnostics Clinical Lab Report

Answers that matter





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harmony

www.harmonytest.com

Ariosa Diagnostics, Inc. 5945 Optical Court San Jose, CA 95138

Questions:

sjc.clientservices@roche.com

US: (855) 927-4672

Intl: +1 (925) 854-6246

Patient and Provider Information

PATIENT NAME:			
	Jane Doe		
DATE OF BIRTH: (MM/DD/YYYY)	01/01/198	30	
MRN:	01/01/150		
123	4567890		
LABORATORY ID:	OTHER ID:		
AD99948736-PAT			
GESTATIONAL AGE:			
	10 wks 5 c	lays	
# OF FETUSES:		IVF STATUS:	
1	non-IVF pregnancy		
COLLECTION DATE (N	M/DD/YYYY) :	RECEIVED DATE (MM/DD/YYYY) :	
10/23/2019		10/23/2019	

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIN	ICIAN:
	Ordering Provider
REFERRING/ORDERING CLIN	ICIAN FAX #:
OTHER CLINICIAN:	
	Genetic Counselor MA, CGC
OTHER CLINICIAN FAX #:	
	123-456-7890
REPORT DATE:	
(MM/DD/YYYY)	10/24/2019

Test Results			Fetal cfDNA Percentage: 50%
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

TEST DESCRIPTION

The Harmony Prenatal Test® measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony® performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result and some euploid fetuses should be considered with other clinical criteria and communicated in a setting that includes appropriate counseling.

CLINICAL DATA

	Detection Rate	False Positive Rate
T21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% CI: 0.02-0.08%)
T18	97.4% (95% CI: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
T13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)
E preg	tion and false positive (discordant result) rates secause these conditions are rare, limited numb gnancies have been evaluated. The negative pre ter than 99%. Positive predictive value (PPV) we reported is not equivalent to the PPV. For more http://www.harmonyt	bers of aneuploidy twin and egg donor dictive value for trisomy 21, 18, and 13 is aries by prevalence. The probability result e information regarding PPV refer to:

harmony

www.harmonytest.com

HIGH PROBABILITY RESULT

ATTEINT IN
DATE OF BI MM/DD/Y
MRN:

Questions:

sjc.clientservices@roche.com

US: (855) 927-4672

Intl: +1 (925) 854-6246

PATIENT NAME:		
	Jane Doe	
DATE OF BIRTH: (MM/DD/YYYY)	01/01/1980	
MRN:		
123	4567890	
LABORATORY ID:	OTHER ID:	
AD99948737-PAT		
GESTATIONAL AGE:		
	10 wks 5 days	
# OF FETUSES:	IVF STATUS:	
1	non-IVF pregnancy	
COLLECTION DATE (M	IM/DD/YYYY): RECEIVED DATE (MM/DD/YYYY):	
10/23/2019	10/23/2019	

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIN	ICIAN:
	Ordering Provider
REFERRING/ORDERING CLIN	ICIAN FAX #:
OTHER CLINICIAN:	
	Genetic Counselor MA, CGC
OTHER CLINICIAN FAX #:	
	123-456-7890
	123 430 7030
REPORT DATE:	
(MM/DD/YYYY)	10/24/2019

Test Results			Fetal cfDNA Percentage: 50%
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	High Probability	Greater than 99/100 (99%)	Genetic counseling and additional testing
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

TEST DESCRIPTION

The Harmony Prenatal Test® measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony® performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result. The Harmony Prenatal Test is not a diagnostic test and results should be considered with other clinical criteria and communicated in a setting that includes appropriate counseling.

CLINICAL DATA

	Detection Rate	False Positive Rate
T21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% Cl: 0.02-0.08%)
T18	97.4% (95% CI: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
T13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)
l preį	ction and false positive (discordant result) rates Because these conditions are rare, limited numt gnancies have been evaluated. The negative pre tart than 99%. Positive predictive value (PPV) are ported is not equivalent to the PPV. For more http://www.harmonyt	bers of aneuploidy twin and egg donor dictive value for trisomy 21, 18, and 13 is aries by prevalence. The probability result e information regarding PPV refer to:





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Patient and Provider Information

Ariosa Diagnostics, Inc. 5945 Optical Court San Jose, CA 95138

Questions:

sjc.clientservices@roche.com

US: (855) 927-4672

Intl: +1 (925) 854-6246

PATIENT NAME:	
	Jane Doe
DATE OF BIRTH: (MM/DD/YYYY)	04/08/1984
MRN:	
LABORATORY ID:	OTHER ID:
AD26330167-PAT	
GESTATIONAL AGE:	
	21 wks 5 days
# OF FETUSES:	IVF STATUS:
2	25.0 yr old non-self egg donor
COLLECTION DATE (MI	M/DD/YYYY): RECEIVED DATE (MM/DD/YYYY):
07/08/2019	07/09/2019

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIN	NICIAN:
	Ordering Provider
REFERRING/ORDERING CLIN	NICIAN FAX #:
OTHER CLINICIAN:	
OTHER CLINICIAN FAX #:	
	408-229-7596
REPORT DATE:	
(MM/DD/YYYY)	07/15/2019
	07/13/2013

Test Results			Fetal cfDNA Percentage: 35%
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

Fetal Sex

Female

TEST DESCRIPTION

The Harmony Prenatal Test[®] measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony[®] performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result and some euploid fetuses will have a with other clinical criteria and communicated in a setting that includes appropriate counseling.

Fetal Sex test quantifies the Y chromosome. A "female" result indicates absence of Y chromosome and a "male" result indicates presence of Y chromosome. It does not exclude sex chromosome aneuploidy. For twin pregnancies, a male result indicates one or two male fetuses.

CLINICAL DATA

	Detection Rate	False Positive Rate
T21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% CI: 0.02-0.08%)
T18	97.4% (95% CI: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
т13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)
E preg	tion and false positive (discordant result) rates Because these conditions are rare, limited numb gnancies have been evaluated. The negative pre Iter than 99%. Positive predictive value (PPV) va reported is not equivalent to the PPV. For more http://www.harmonyt	bers of aneuploidy twin and egg donor dictive value for trisomy 21, 18, and 13 is aries by prevalence. The probability result e information regarding PPV refer to:

Fetal Sex: > 99% accuracy for male or female sex (95% CI: 99.2-100%)

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www.harmonytest.com

Patient and Provider Information

Ariosa Diagnostics, Inc. 5945 Optical Court San Jose, CA 95138

Questions:

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US: (855) 927-4672

Intl: +1 (925) 854-6246

PATIENT NAME:	
	Jane Doe
DATE OF BIRTH: (MM/DD/YYYY)	07/02/1992
MRN:	
LABORATORY ID:	OTHER ID:
AD26330165-PAT	
GESTATIONAL AGE:	
	12 wks 4 days
# OF FETUSES:	IVF STATUS:
1	non-IVF pregnancy
COLLECTION DATE (MI	M/DD/YYYY): RECEIVED DATE (MM/DD/YYYY):
07/08/2019	07/09/2019

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIP	NICIAN:
	Ordering Provider
REFERRING/ORDERING CLIP	NICIAN FAX #:
OTHER CLINICIAN:	
OTHER CLINICIAN FAX #:	
	408-229-7596
REPORT DATE:	
(MM/DD/YYYY)	07/15/2019

Test Results			Fetal cfDNA Percentage: 5%
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

Monosomy X

High Risk greater than 99% probability - Recommend genetic counseling

TEST DESCRIPTION

The Harmony Prenatal Test[®] measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony[®] performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result and some euploid fetuses will have a with other clinical criteria and communicated in a setting that includes appropriate counseling.

Monosomy X test quantifies the X chromosome. Monosomy X is reported at a probability of 1% or greater. It does not exclude other sex chromosome aneuploidies. Monosomy X has only been validated in singleton pregnancies.

CLINICAL DATA

	Detection Rate	False Positive Rate
т21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% CI: 0.02-0.08%)
T18	97.4% (95% Cl: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
т13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)
Be pregn	ion and false positive (discordant result) rates cause these conditions are rare, limited numb ancies have been evaluated. The negative pre er than 99%. Positive predictive value (PPV) va	pers of aneuploidy twin and egg donor dictive value for trisomy 21, 18, and 13 is

greater than 99%. Positive predictive value (PPV) varies by prevalence. The probability result reported is not equivalent to the PPV. For more information regarding PPV refer to: http://www.harmonytest.com/PPV

Monosomy X:

Monosomy X provides probability for non-mosaic Monosomy X. Limited numbers of Monosomy X cases have been evaluated to date.

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Questions:

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US: (855) 927-4672

Intl: +1 (925) 854-6246

Patient and Provider Information

PATIENT NAME:			
	Jane Doe		
DATE OF BIRTH: (MM/DD/YYYY)	01/01/198	30	
MRN:			
123	34567890		
LABORATORY ID:		OTHER ID:	
AD99948738-PA	т		
GESTATIONAL AGE:			
	10 wks 5 d	lays	
# OF FETUSES:		IVF STATUS:	
1	non-IVF pregnancy		
COLLECTION DATE (M	MM/DD/YYYY) :	RECEIVED DATE (MM/DD/YYYY) :	
10/23/2019		10/23/2019	

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIN	ICIAN:
	Ordering Provider
REFERRING/ORDERING CLIN	ICIAN FAX #:
OTHER CLINICIAN:	
	Genetic Counselor MA, CGC
OTHER CLINICIAN FAX #:	
	123-456-7890
REPORT DATE:	
(MM/DD/YYYY)	10/24/2019

Fetal cfDNA Percentage: 50%

Test Results

CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

Sex Chromosome Aneuploidy Panel

Low Probability

TEST DESCRIPTION

The Harmony Prenatal Test[®] measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony[®] performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result. The Harmony Prenatal Test is not a diagnostic test and results should be considered with other clinical criteria and communicated in a setting that includes appropriate counseling.

Sex Chromosome Aneuploidy (SCA) Panel measures proportions of the X and Y chromosomes. Sex chromosome conditions (Monosomy X, XXY, XYY, XXX, XXYY) are reported at probabilities of 1% or greater. An XYY or XXYY result indicates two or more fetal Y chromosomes. Sex Chromosome Aneuploidy Panel has only been validated in singleton pregnancies.

CLINICAL DATA

	Detection Rate	False Positive Rate
T21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% CI: 0.02-0.08%)
T18	97.4% (95% CI: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
T13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)

Detection and false positive (discordant result) rates based on probability cut-off of 1/100 (1%). Because these conditions are rare, limited numbers of aneuploidy twin and egg donor pregnancies have been evaluated. The negative predictive value for trisomy 21, 18, and 13 is greater than 99%. Positive predictive value (PPV) varies by prevalence. The probability result reported is not equivalent to the PPV. For more information regarding PPV refer to: http://www.harmonytest.com/PPV

SCA Panel:

SCA Panel provides probability for non-mosaic fetal sex chromosome aneuploidies. Test performance varies by condition. Limited numbers of sex chromosome aneuploidy cases have been evaluated to date.

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Questions:

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Intl: +1 (925) 854-6246

Patient and Provider Information

PATIENT NAME:			
	Jane Doe		
DATE OF BIRTH:			
(MM/DD/YYYY)	01/01/198	30	
MRN:			
12	34567890		
LABORATORY ID:		OTHER ID:	
AD99948739-P/	AT		
GESTATIONAL AGE:			
	10 wks 5 c	lays	
# OF FETUSES:		IVF STATUS:	
1	nor	non-IVF pregnancy	
COLLECTION DATE	(MM/DD/YYYY) :	RECEIVED DATE (MM/DD/YYYY) :	
10/23/2019		10/23/2019	

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLINI	CIAN:
	Ordering Provider
REFERRING/ORDERING CLINI	CIAN FAX #:
OTHER CLINICIAN:	
	Genetic Counselor MA, CGC
OTHER CLINICIAN FAX #:	
	123-456-7890
REPORT DATE:	
(MM/DD/YYYY)	10/24/2019

Fetal cfDNA Percentage: 50%

Test Results

Sex Chromosome Aneuploidy Panel Low Probability			
Fetal Sex Male			
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION

TEST DESCRIPTION

The Harmony Prenatal Test* measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony* performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least on affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result. The Harmony Prenatal Test is not a diagnostic test and results should be considered with other clinical criteria and communicated in a setting that includes appropriate courseling.

Fetal Sex test quantifies the Y chromosome. A "female" result indicates absence of Y chromosome and a "male" result indicates presence of Y chromosome. It does not exclude sex chromosome aneuploidy. For twin pregnancies, a male result indicates one or two male fetuses.

Sex Chromosome Aneuploidy (SCA) Panel measures proportions of the X and Y chromosomes. Sex chromosome conditions (Monosomy X, XXY, XYY, XXX, XXYY) are reported at probabilities of 1% or greater. An XYY or XXYY result indicates two or more fetal Y chromosomes. Sex Chromosome Aneuploidy Panel has only been validated in singleton pregnancies.

CLINICAL DATA

	Detection Rate	False Positive Rate
T21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% Cl: 0.02-0.08%)
T18	97.4% (95% Cl: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
T13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% Cl: 0.01-0.06%)

Detection and false positive (discordant result) rates based on probability cut-off of 1/100 (1%). Because these conditions are rare, limited numbers of aneuploidy twin and egg donor pregnancies have been evaluated. The negative predictive value for trisomy 21, 18, and 13 is greater than 99%. Positive predictive value (PPV) varies by prevalence. The probability result reported is not equivalent to the PPV. For more information regarding PPV refer to: http://www.harmonytest.com/PV

Fetal Sex: > 99% accuracy for male or female sex (95% CI: 99.2-100%)

SCA Panel: SCA Panel provides probability for non-mosaic fetal sex chromosome aneuploidies. Test performance varies by condition. Limited numbers of sex chromosome aneuploid cases have been evaluated to date.

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www.harmonytest.com

Patient and Provider Information

Ariosa Diagnostics, Inc. 5945 Optical Court San Jose, CA 95138

Questions:

sjc.clientservices@roche.com

US: (855) 927-4672

Intl: +1 (925) 854-6246

PATIENT NAME:		
	Jane Doe	
DATE OF BIRTH: (MM/DD/YYYY)	07/31/199	93
MRN:		
LABORATORY ID:		OTHER ID:
AD26330160-PAT		
GESTATIONAL AGE:		
	13 wks 5 d	lays
# OF FETUSES:		IVF STATUS:
1	non-IVF pregnancy	
COLLECTION DATE (MM/DD/YYYY) :		RECEIVED DATE (MM/DD/YYYY) :
07/08/2019		07/09/2019

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLINI	CIAN:
	Ordering Provider
REFERRING/ORDERING CLINI	CIAN FAX #:
OTHER CLINICIAN:	
OTHER CLINICIAN:	
OTHER CLINICIAN FAX #:	
	408-229-7596
REPORT DATE:	
(MM/DD/YYYY)	07/15/2019

Test Results			Fetal cfDNA Percentage: 41%	
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION	
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient	
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient	
Trisomy 13 (T13) Low Probability Less than 1/10,000 (0.01%) Review results with patient				

Fetal Sex

Female

Sex Chromosome Aneuploidy Panel

Monosomy X greater than 99% probability - Recommend genetic counseling

TEST DESCRIPTION

The Harmony Prenatal Test[®] measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony[®] performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result and some euploid fetuses will have a high probability results should be considered with other clinical criteria and communicated in a setting that includes appropriate counseling.

Fetal Sex test quantifies the Y chromosome. A "female" result indicates absence of Y chromosome and a "male" result indicates presence of Y chromosome. It does not exclude sex chromosome aneuploidy. For twin pregnancies, a male result indicates one or two male fetuses.

Sex Chromosome Aneuploidy (SCA) Panel measures proportions of the X and Y chromosomes. Sex chromosome conditions (Monosomy X, XXY, XYY, XXX, XXYY) are reported at probabilities of 1% or greater. An XYY or XXYY result indicates two or more fetal Y chromosomes. Sex Chromosome Aneuploidy Panel has only been validated in singleton pregnancies.

CLINICAL DATA

	Detection Rate	False Positive Rate
T21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% Cl: 0.02-0.08%)
T18	97.4% (95% CI: 93.4-99.0%)	< 0.1% (95% Cl: 0.01-0.05%)
T13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% Cl: 0.01-0.06%)

Detection and false positive (discordant result) rates based on probability cut-off of 1/100 (1%). Because these conditions are rare, limited numbers of aneuploity win and egg donor pregnancies have been evaluated. The negative predictive value for trisomy 21, 18, and 13 is greater than 99%. Positive predictive value (PPV) varies by prevalence. The probability result reported is not equivalent to the PPV. For more information regarding PPV refer to: http://www.harmonytest.com/PV

Fetal Sex: > 99% accuracy for male or female sex (95% CI: 99.2-100%)

SCA Panel: SCA Panel provides probability for non-mosaic fetal sex chromosome aneuploidies. Test performance varies by condition. Limited numbers of sex chromosome aneuploidy cases have been evaluated to date.

harmony

www.harmonytest.com

Ariosa Diagnostics, Inc. 5945 Optical Court San Jose, CA 95138

Questions:

sjc.clientservices@roche.com

US: (855) 927-4672

Intl: +1 (925) 854-6246

Patient and Provider Information

PATIENT NAME:			
	Jane Doe		
DATE OF BIRTH: (MM/DD/YYYY)	01/01/198	30	
MRN:			
123	34567890		
LABORATORY ID:		OTHER ID:	
AD99948740-PA	т		
GESTATIONAL AGE:			
	10 wks 5 d	lays	
# OF FETUSES:		IVF STATUS:	
1	non-IVF pregnancy		
COLLECTION DATE (MM/DD/YYYY) :	RECEIVED DATE (MM/DD/YYYY) :	
10/23/2019		10/23/2019	

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIN	ICIAN:
	Ordering Provider
REFERRING/ORDERING CLIN	ICIAN FAX #:
OTHER CLINICIAN:	
	Genetic Counselor MA, CGC
OTHER CLINICIAN FAX #:	
	123-456-7890
REPORT DATE:	
(MM/DD/YYYY)	10/24/2019

Test Results			Fetal cfDNA Percentage: 50%
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

22q11.2

No evidence of a deletion observed

TEST DESCRIPTION

The Harmony Prenatal Test® measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony® performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result. The Harmony Prenatal Test is not a diagnostic test and results should be considered with other clinical criteria and communicated in a setting that includes appropriate counseling.

22q11.2 test uses targeted analysis of chromosome cfDNA fragments from within a 3Mb region of 22q11.21 to determine the probability of a deletion. "High probability of a deletion" indicates that the analysis detected a decrease of cfDNA fragments consistent with a deletion in the 22q11.21 region, which may be fetal, maternal or both. "No evidence of a deletion observed" indicates the analysis does not find an increased probability for a deletion in the 22q11.21 region. Not all fetuses with 22q11.2 deletions will be classified as high probability. This test does not rule out the possibility of other clinically significant aneuploidy, single gene conditions, microdeletions or microduplications being present in the fetus. Women with a known 22q11.2 deletion are not eligible for this test. 22q11.2 test has only been validated in singleton pregnancies.

CLINICAL DATA

		False Positive Rate
т21	> 99% (95% CI: 97.9-99.8%)	< 0.1% (95% Cl: 0.02-0.08%)
т18	97.4% (95% CI: 93.4-99.0%)	< 0.1% (95% CI: 0.01-0.05%)
т13	93.8% (95% Cl: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)

greater than 99%. Positive predictive value (PPV) varies by prevalence. The probability result reported is not equivalent to the PPV. For more information regarding PPV refer to: http://www.harmonytest.com/PPV

22q11.2:

Limited numbers of 22g11.2 cases have been evaluated to date.

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Patient and Provider Information

PATIENT NAME:		
	Jane Doe	
DATE OF BIRTH: (MM/DD/YYYY)	01/01/198	30
MRN:		
123	84567890	
LABORATORY ID:	OTHER ID:	
AD99948741-PA	г	
GESTATIONAL AGE:		
	10 wks 5 c	lays
# OF FETUSES:		IVF STATUS:
1	nor	n-IVF pregnancy
COLLECTION DATE (N	/M/DD/YYYY) :	RECEIVED DATE (MM/DD/YYYY) :
10/23/2019		10/23/2019

ACCOUNT #:	
	88884
CLINIC NAME:	
	en-US Clinic Offering Test
REFERRING/ORDERING CLIN	ICIAN:
	Ordering Provider
REFERRING/ORDERING CLIN	ICIAN FAX #:
OTHER CLINICIAN:	
	Genetic Counselor MA, CGC
OTHER CLINICIAN FAX #:	
	123-456-7890
REPORT DATE:	
(MM/DD/YYYY)	10/24/2019

Test Results Fetal cfDNA Percentage: 509				
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION	
Trisomy 21 (T21)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient	
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient	
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient	

22q11.2

High probability of a deletion - Recommend genetic counseling

TEST DESCRIPTION

The Harmony Prenatal Test® measures the relative proportion of chromosomes to aid in the assessment of fetal trisomies 21, 18, and 13. Harmony® performs a directed analysis of cell-free DNA (cfDNA) in maternal blood and incorporates the fetal fraction of cfDNA in test results. Test results also incorporate maternal age (or egg donor age) and gestational age related probability based on information provided on the test requisition form. Probability of less than 1% is defined as low probability and 1% or greater is defined as high probability. Harmony has been validated in singleton and twin pregnancies of at least 10 weeks gestational age. Harmony is not validated for use in pregnancies with more than two fetuses, demised twin, mosaicism, partial chromosome aneuploidy, translocations, maternal aneuploidy, transplant, malignancy, or in women under the age of 18. Harmony does not detect neural tube defects. Twin results reflect the probability that the pregnancy involves at least one affected fetus. Analysis of cfDNA does not always correlate with fetal genotype. Not all aneuploid fetuses will have a high probability result and some euploid fetuses will have a high probability result. The Harmony Prenatal Test is not a diagnostic test and results should be considered with other clinical criteria and communicated in a setting that includes appropriate counseling.

22q11.2 test uses targeted analysis of chromosome cfDNA fragments from within a 3Mb region of 22q11.21 to determine the probability of a deletion. "High probability of a deletion" indicates that the analysis detected a decrease of cfDNA fragments consistent with a deletion in the 22q11.21 region, which may be fetal, maternal or both. "No evidence of a deletion observed" indicates the analysis does not find an increased probability for a deletion in the 22q11.21 region. Not all fetuses with 22q11.2 deletions will be classified as high probability. This test does not rule out the possibility of other clinically significant aneuploidy, single gene conditions, microdeletions or microduplications being present in the fetus. Women with a known 22q11.2 deletion are not eligible for this test. 22q11.2 test has only been validated in singleton pregnancies.

CLINICAL DATA

	Detection Rate	False Positive Rate
т21	> 99% (95% Cl: 97.9-99.8%)	< 0.1% (95% CI: 0.02-0.08%)
т18	97.4% (95% Cl: 93.4-99.0%)	< 0.1% (95% Cl: 0.01-0.05%)
т13	93.8% (95% CI: 79.9-98.3%)	< 0.1% (95% CI: 0.01-0.06%)

pregnancies have been evaluated. The negative predictive value for trisomy 21, 18, and 13 is greater than 99%. Positive predictive value (PPV) varies by prevalence. The probability result reported is not equivalent to the PPV. For more information regarding PPV refer to: http://www.harmonytest.com/PPV

22q11.2:

Limited numbers of 22g11.2 cases have been evaluated to date.



Harmony Prenatal Test Options

The Harmony Prenatal Test is validated for use in singleton, twin, and IVF pregnancies, including self and non-self egg donor pregnancies. ¹		SINGLETON	AVAILABLE FOR EGG DONOR & IVF	twins	
Harmony Prenatal Test		Evaluates the probability of fetal trisomy 21, trisomy 18 and trisomy 13.	\checkmark	\checkmark	\checkmark
The foll	The following test options are also available from the same blood draw:				
	Fetal Sex	Provides information regarding fetal sex. Assessment of fetal sex does not include assessment of sex chromosome aneuploidy. In twin pregnancies, a female result applies to both fetuses; a male result applies to one or both fetuses.	\checkmark	\checkmark	\checkmark
	Monosomy X	Evaluates the probability of monosomy X, but no information regarding other sex chromosome aneuploidies.	\checkmark	\checkmark	
	Sex Chromosome Aneuploidy Panel	Evaluates the probability of X and Y chromosome aneuploidies, including monosomy X, XXX, XXY, XYY and XXYY.	\checkmark	\checkmark	
	Evaluates the probability of 22q11.2 deletion.		\checkmark	\checkmark	

For both Monosomy X and the Sex Chromosome Aneuploidy Panel, fetal sex will only be reported if the Fetal Sex box is checked separately. However if the result indicates a high risk for sex chromosome aneuploidy, then this risk assessment will indirectly provide information regarding fetal sex. The Harmony Prenatal test is not available for more than 2 fetuses.

The Harmony Prenatal Test provides clear answers to questions that matter

Fest Results			Fetal cfDNA Percentage: 10.59
CHROMOSOME	RESULT	PROBABILITY	RECOMMENDATION
Trisomy 21 (T21)	High Probability	Greater than 99/100 (99%)	Genetic counseling and additional testing
Trisomy 18 (T18)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient
Trisomy 13 (T13)	Low Probability	Less than 1/10,000 (0.01%)	Review results with patient

Clear Answers Early

 \bullet Personalized results that incorporate chromosome quantification fetal DNA fraction, gestational age, and maternal age^{2-4}

Three Steps to Clarity



Draw a maternal blood sample at 10 weeks or later in pregnancy.



Submit sample and test requisition form per collection instructions.



Lab results in as soon as little as 3 days from receipt, most in 5 days or less

www.harmonytest.com

For assistance email sjc.clientservices@roche.com or call 1-855-927-4672 Outside the USA, call +1 925-854-6246

1. Stokowski et al. Prenatal Diagnosis 2015, 35, 1-4.

2. Sparks et al. Prenat Diagn. 2012 Jan;32(1):3-9.

- 3. Sparks et al. Am J Obstet Gynecol. 2012 Apr;206(4):319.e1-9.
- 4. Juneau et al. Fetal Diagn Ther. 2014;36(4):282-6.

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This testing service has not been cleared or approved by the US FDA.

Harmony is a non-invasive prenatal test (NIPT) based on cell-free DNA analysis and is considered a prenatal screening test, not a diagnostic test. Harmony does not screen for potential chromosomal or genetic conditions other than those expressly identified in this document. Before making any treatment decisions, all women should discuss their results with their healthcare provider, who can recommend confirmatory, diagnostic testing where appropriate.