

Genarrayt® Microarray

Genarrayt™

Genesis Diagnostics Food Intolerance Microarray Technology

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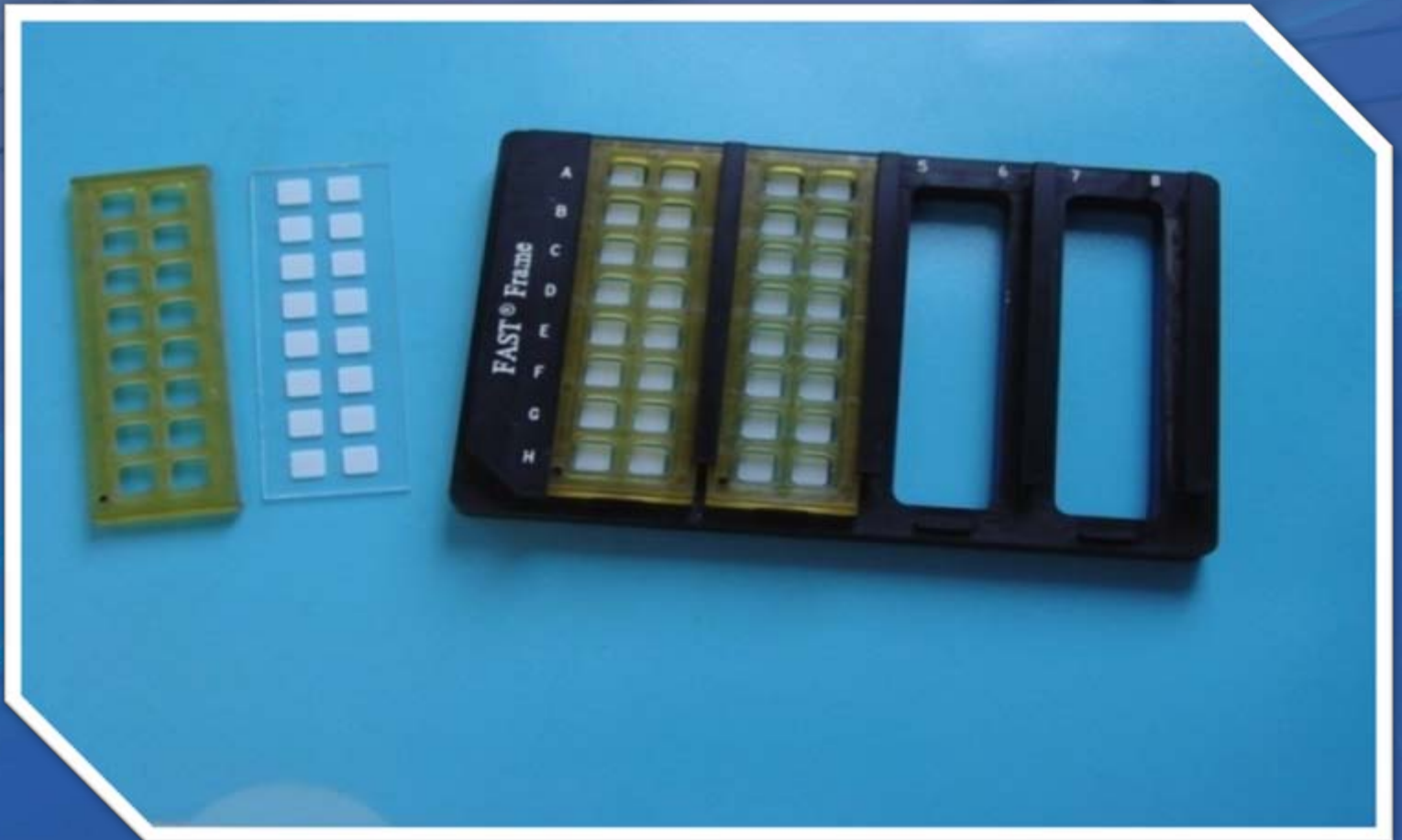
 **BETA DIAGNOSTICI**
biotechnology

BRINGING INNOVATION TO IMMUNOASSAY

Caratteristiche

- Identificazione di risposte IgG mediate a 221 alimenti
- Analisi degli alimenti eseguita in doppio
- Analisi contemporane di più pazienti in sole 2 ore
- Risultati quantitativi in UI/ml
- Curva standard per ogni paziente
- Controlli Positivi e Negativi
- Eseguibile con prelievo da sangue capillare
- Campione richiesto : siero o plasma 5 μ l
- Campione richiesto : sangue intero 10 μ l
- Software di interpretazione dedicato per ogni lotto

Supporto per l'esecuzione del test



Wash Station



Minicentifuga per vetrini

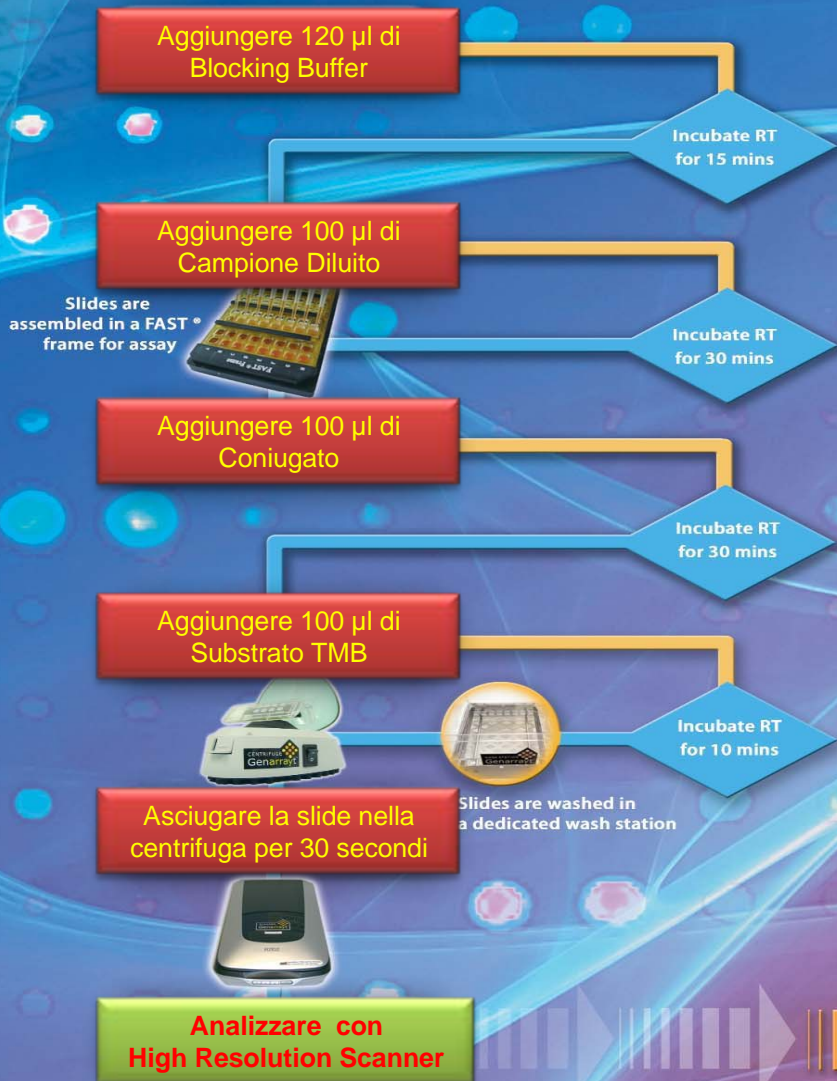


High Resolution Scanner (10 μ m)





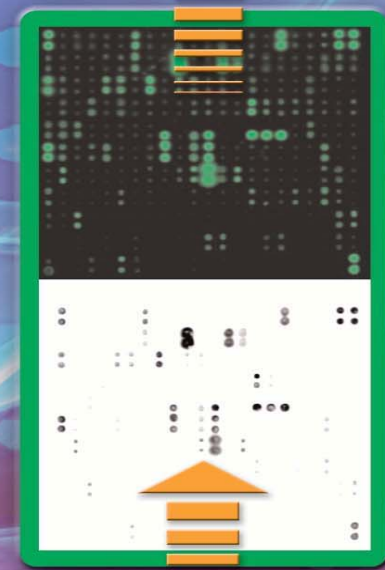
Methods



Results

Proprietary software converts raw data files into individual patient reports

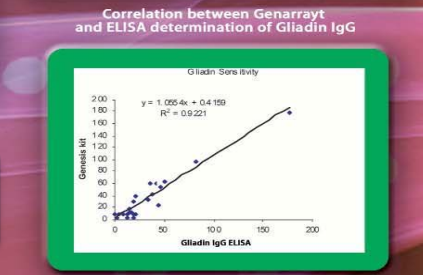
Results are then discussed between the patient and a nutritionist who will suggest dietary changes if applicable



FOODPRINT 2000+

Completed report for:
Patient Number: 0
Sample Date: 03-Mar-07

Food	Result	Food	Result	Food	Result	Food	Result
APPLE	negative	APPLE	negative	APPLE	negative	APPLE	negative
BANANA	negative	BANANA	negative	BANANA	negative	BANANA	negative
BREAD	negative	BREAD	negative	BREAD	negative	BREAD	negative
BUTTER	negative	BUTTER	negative	BUTTER	negative	BUTTER	negative
CHEESE	negative	CHEESE	negative	CHEESE	negative	CHEESE	negative
EGG	negative	EGG	negative	EGG	negative	EGG	negative
FISH	negative	FISH	negative	FISH	negative	FISH	negative
GRAPE	negative	GRAPE	negative	GRAPE	negative	GRAPE	negative
ORANGE	negative	ORANGE	negative	ORANGE	negative	ORANGE	negative
PANCAKE	negative	PANCAKE	negative	PANCAKE	negative	PANCAKE	negative
PASTA	negative	PASTA	negative	PASTA	negative	PASTA	negative
PEPPER	negative	PEPPER	negative	PEPPER	negative	PEPPER	negative
PIZZA	negative	PIZZA	negative	PIZZA	negative	PIZZA	negative
RICE	negative	RICE	negative	RICE	negative	RICE	negative
SOY	negative	SOY	negative	SOY	negative	SOY	negative
TOMATO	negative	TOMATO	negative	TOMATO	negative	TOMATO	negative
WATERMELON	negative	WATERMELON	negative	WATERMELON	negative	WATERMELON	negative
YOGURT	negative	YOGURT	negative	YOGURT	negative	YOGURT	negative



BRINGING INNOVATION TO IMMUNOASSAY

SpotWare™



Scan Area (Slide Bay 1)



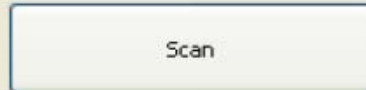
Notes



**SpotWare scan
Acquisisce il vetrino e...**

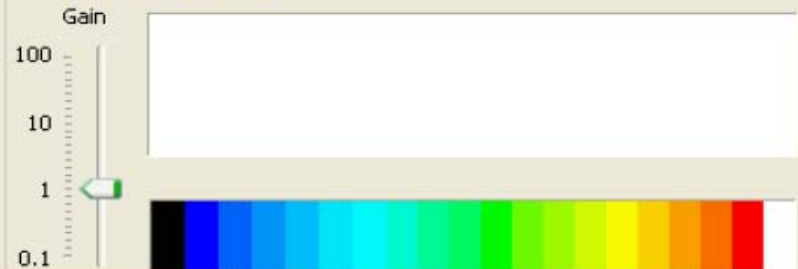
Scan Settings

	x	y	(mm)	
▲	0.0	0.0	Upper Left	Size 36.23 MB
▼	25.0	76.0	Lower Right	Resolution 10 µm
◀ ▶				



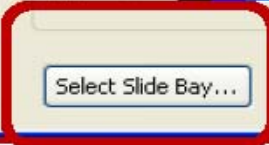
Scan Gain 1

Pre-Scan Intensity (Gain: 1.0)



Pre-Scan All

Pre-Scan Selection



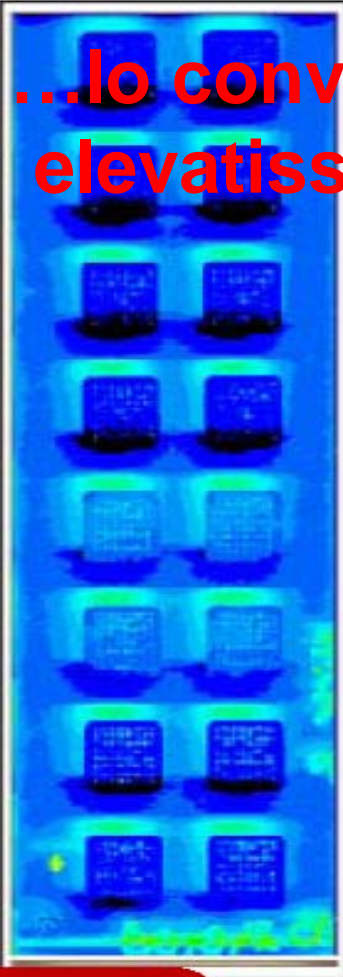
Select Slide Bay...

Options...

Help

SpotWare™

Scan Area (Slide Day 1)



...lo converte in una immagine ad elevatissima risoluzione (10 μm)

Notes

Scan Settings

x y (mm)
0.0 0.0 Upper Left
25.0 76.0 Lower Right

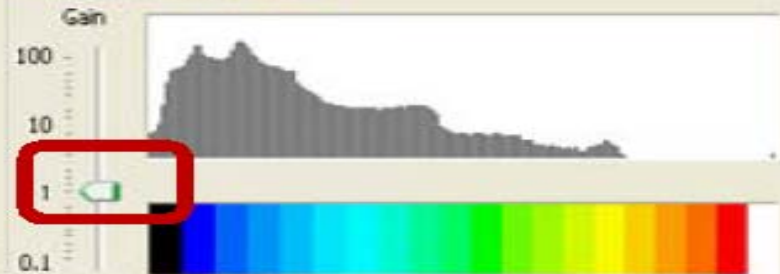
Size 36.23 MB

Resolution 10 μm

Scan

Scan Gain 1

Pre-Scan Intensity (Gain: 1.0)



Pre-Scan All

Pre-Scan Selection

Select Slide Bay...

Options...

Help


Image
 Preview (fast scan)
 Wavelength 532

Tools



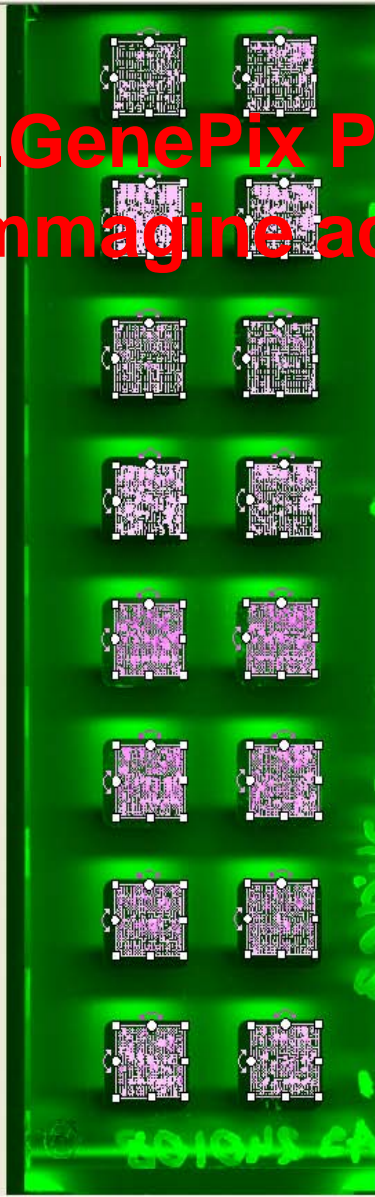
79 73

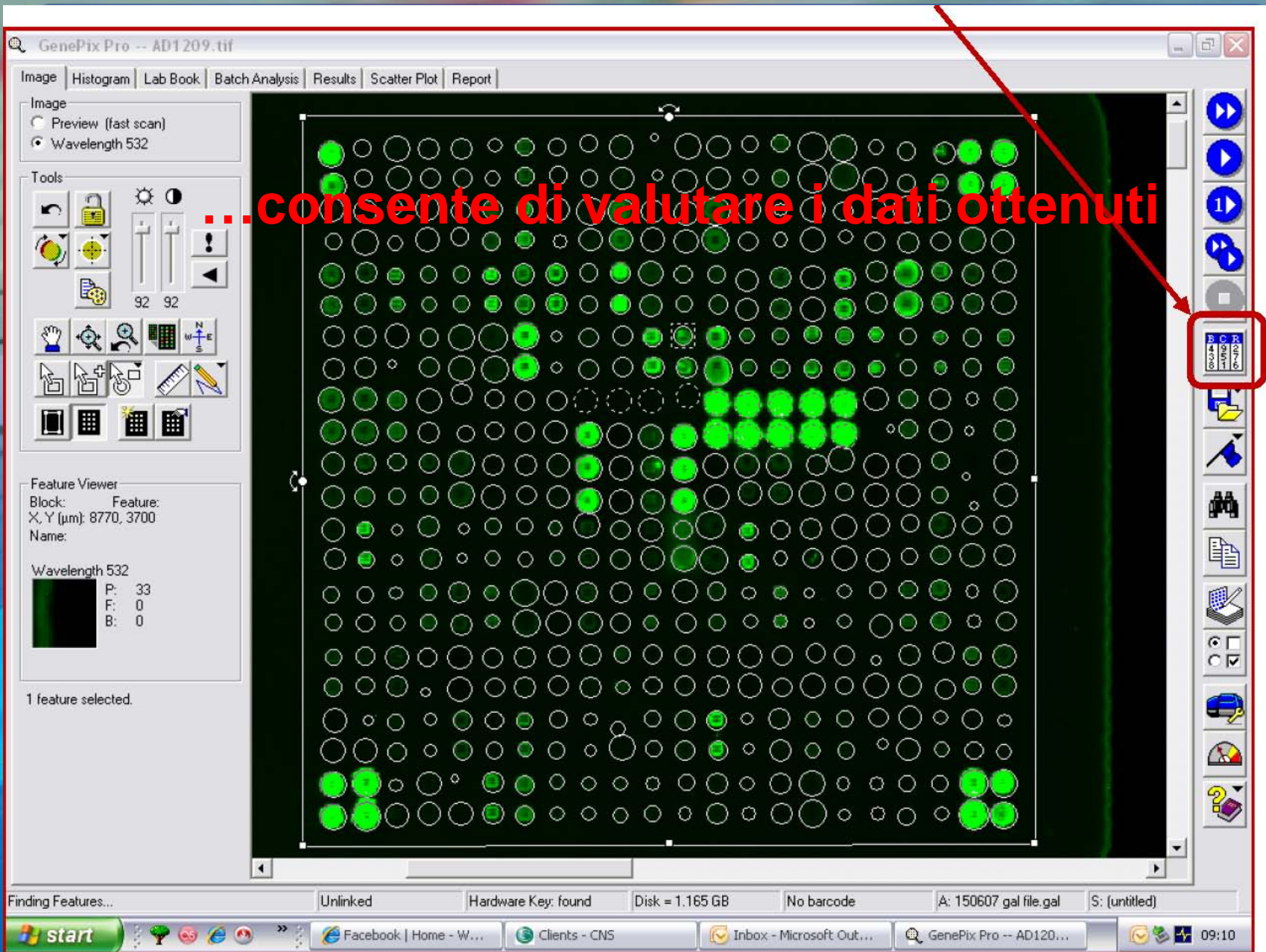
Feature Viewer
Block: Feature:
X, Y (µm):
Name:

Wavelength 532


16 blocks selected.

...GenePix Pro
Importa l'immagine acquisita e...





...consente di valutare i dati ottenuti



Slide Reference:

Patient Name:

Select pad: Patient No: Test Ref:

Test date:

Prepare ScanData



IgG Standard curve

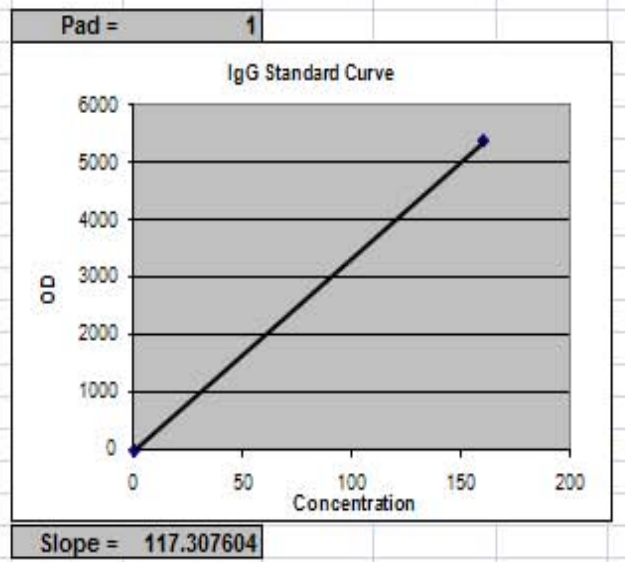
Calibrator	OD 1	OD 2	OD 3	Mean OD	SD	CV%	OD - Zero
0	100	100	100	100			0
160		5463		5463	1722	32	5363

Cutoff at IgG concentration (U/mL):

Concentration at borderline (U/mL):

8759	3940	8821	4702	5932	Delete outliers		
5329	5626	5880	7521		Reset with 'New Patient' button		

Mean control values	
Positive	Negative
94	4



**...Genarrayt Reporting software
Interpreta i dati analizzati e...**

Slide Reference: 123

Select pad: 1

Patient Name: KEVIN WHEELER

Patient No: 995678 Test Ref: 678

Test date: 10-Jul-08

Buttons: Prepare ScanData (Prepared), New Patient, Print This Pad Data, Save Excel File, Compile Data (Data Compiled)



17	negative	BEAN (white ha	negative	LEEK	negative	OX	negative	CHERRY	negative	POMEGRANAT	negative	CUTTLEFISH	negative	PLAICE
16	negative	BEAN (red kidn	negative	LENTIL	negative	HORSE	negative	COCONUT	negative	RASPBERRY	negative	DORADO	negative	RAZOR CLAM
15	negative	BEETROOT	negative	LETT	negative	BILLY GOAT	negative	DATE	negative	REDCURRANT	negative	EEL	negative	SALMON
14	negative	BROCCOLI	negative	MAR	negative	PORK	negative	FIG	negative	STRAWBERRY	POS	POS	POS	
13	negative	CABBAGE	negative	MUS	negative	QUAIL	negative	GRAPE	negative	WATERMELON	0	0	0	
12	negative	CARROT	negative	ONIO	negative	RABBIT	negative	GRAPEFRU	negative	AGAR AGAR	40	40	40	
11	negative	CAULIFLOWER	negative	PAT	negative	LAMB	negative	GUAYA	negative	ALGA espaguet	160	160	160	
10	negative	CAYENNE	negative	PEA	negative	WILD BOAR	negative	KIWI	negative	ALGA spirulina				
9	negative	CELERY	negative	POTATO	negative	DUCK	negative	LEMON	negative	ALGA wakame	negative	CRANBERRY		
8	negative	CHARD	negative	GOURD (squas	negative	TURKEY	negative	LIME	negative	ANCHOVY	negative	HOPS		
7	negative	CHICKPEA	negative	RADISH	negative	PARTRIDGE	negative	LYCHEE	negative	BARNACLE	negative	HADDOCK		
6	negative	CHICORY	negative	CABBAGE (red	negative	CHICKEN	negative	MANGO	negative	BASS	negative	SCALLOP		
5	negative	CUCUMBER	negative	ROCKET	negative	YEAL	negative	MELON (Ho	negative	CARP	negative	SHAKE	negative	SARDINE
4	negative	DILL	negative	SPINACH	negative	BEEF	negative	MULBERRY	negative	AVOCADO	negative	HERRING	negative	SHRIMP/PRA
3	negative	FENNEL (leaf)	negative	BRUSSEL SPF	negative	VENISON	negative	NECTARINE	negative	TANGERINE	negative	LOBSTER	negative	SOLE
2	51	Negative contr	negative	SWEET POTAT	negative	APPLE	negative	OLIVE	negative	WALNUT	negative	MACKEREL	negative	SQUID
1	173	Positive contr	negative	TAPIOCA	negative	APRICOT	negative	ORANGE	negative	ASPARAGUS	negative	MONKFISH	negative	SWORDFISH

IgG Standard curve

Calibrator	OD 1	OD 2	OD 3	Mean OD	SD	CV%	OD - Zero
0	100	100	100	100			0
160		37370		37370	4523	12	37270

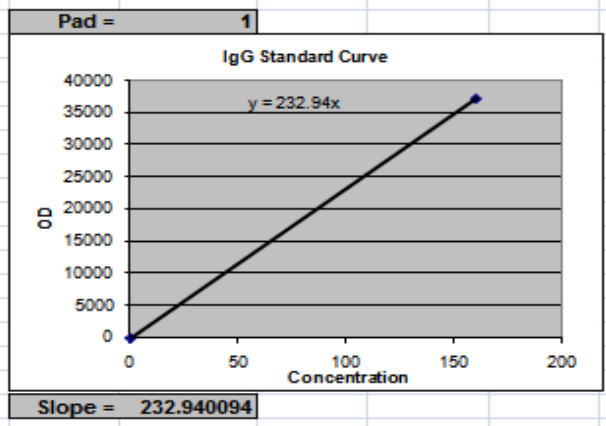
OD/Cutoff at IgG concentration: 30 = 6988

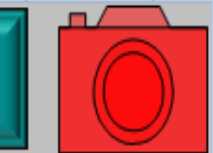
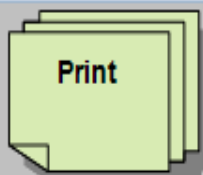
OD/concentration at borderline: 20 = 4659

47678	46644	45124	47258	42678	Delete outliers
38531	36884	37595	39162	47991	Reset with 'New Patient' button

Contol values

Positive	Negative
178	103
173	51
170	
137	
140	





FOODPRINT™ 40+

Compiled report for :

Patient Number: 0

Test Date: 00-Jan-00

0 40+

40+	Type	Avoid (>30)	Borderline (20-30)	No reaction
15 COW'S MILK	dairy			
16 EGG WHITE	dairy			
17 EGG YOLK	dairy			
31 COD	fish/seafood			
32 CRAB	fish/seafood			
36 HADDOCK	fish/seafood			
39 LOBSTER	fish/seafood			
47 PLAICE	fish/seafood			
52 SHRIMP/PRAWN	fish/seafood			
61 APPLE	fruit			
65 BLACKBERRY	fruit			
73 GRAPEFRUIT	fruit			
76 LEMON	fruit			
84 ORANGE	fruit			
87 PEAR	fruit			
92 RASPBERRY	fruit			
95 STRAWBERRY	fruit			
100 BARLEY	grain			
102 CORN (maize)	grain			

...Restituisce il referto del paziente

INTERPRETAZIONE DEI DATI

Interpretazione

Valori espressi in U/ml

Interpretazione

ZONA ROSSA	Valori uguali o superiori a 30 U/ml	ALIMENTO NON TOLLERATO (Seguire le indicazioni del Medico)
ZONA GIALLA	Valori compresi tra 24 U/ml e 30 U/ml	Possibile sviluppo di Intolleranza (Si consiglia di tenere sotto controllo)
ZONA VERDE	Valori compresi tra 1 U/ml e 23 U/ml	NESSUNA REAZIONE (NEGATIVO – Nessuna Intolleranza Rilevata)

A L L I M E N T I

ACCIUGA
AGAR AGAR
AGLIO
AGNELLO
ALBICOCCA
ALBUME
ALGA espaguette
ALGA spirulina
ALGA wakame
ALLORO
ALOE
ALPHA-LACTALBUMINA
AMARANTO
ANACARDO
ANANAS
ANATRA
ANGUILLA
ANGURIA
ANICE
ARACHIDE
ARAGOSTA
ARANCIA
ARINGA
ASPARAGO
AVENA
AVOCADO
BANANA
BARBABIETOLA
BASILICO
BETA-LACTOGLOBULINA
BIETOLA
BROCCOLO
BUE
CACAO
CAFFE`
CALAMARO
CAMOMILLA
CANNELLA
CANNOLICCHIO
CAPASANTA
CAPPERO
CAPRETTO
CARCIOFO
CAROTA
CARPA
CARRUBBA
CASEINA
CASTAGNA
CAVALLO
CAVIALE
CAVOLETTI DI BRUXELLES
CAVOLFIORE
CAVOLO
CECE
CERVO

CHiodo di GAROFANO
CICORIA
CILIEGIA
CIMA DI RAPA
CINGHIALE
CIPOLLA
COCCO
COLZA
CONIGLIO
CORIANDOLO
COUSCOUS
COZZE
CRESCIONE
CRUSCA
CUMINO
CURRY
DATTERO
DRAGONCELLO
FAGIOLINO
FAGIOLO BIANCO
FAGIOLO ROSSO
FARRO
FAVA
FICO
FINOCCHIETTO SELVATICO
FINOCCHIO
FRAGOLA
FUNGHI
GAMBERO
GELSO
GINKGO BILOBA
GINSENG
GLUTAMINA
GRANCHIO
GRANO DURO
GRANO SARACENO
GRANO TENERO
GUAVA
KIWI
LAMPONE
LAMPUGA
LATTE DI BUFALA
LATTE DI CAPRA
LATTE DI MUCCA
LATTE DI PECORA
LATTUGA
LENTICCHIA
LIEVITO DI BIRRA
LIEVITO DI PANE
LIME
LIMONE
LIQUIRIZIA
LITCHI
LUCCIO
LUMACA DI MARE

LUPPOLO
MAIALE
MAIS
MALTO
MANDARINO
MANDORLA
MANGO
MANZO
MELA
MELANZANA
MELOGRANO
MELONE
MENTA
MENTA PIPERITA
MERLUZZO
MIELE
MIGLIO
MIRTILLO
MIRTILLO ROSSO
MORA
NASELLO
NOCCIOLA
NOCE
NOCE BRASILIANA
NOCE DI MACADAMIA
NOCE MOSCATA
OLIVA
ORIGANO/MAGGIORANA
ORTICA
ORZO
OSTRICA
PAPAYA
PATATA
PATATA DOLCE
PATELLA
PEPE DI CAYENNA
PEPE NERO/BIANCO
PEPERONCINO
PEPERONE
PERA
PERNICE
PESCA
PESCA NOCE
PESCE PERSICO
PESCESPADA
PINOLO
PISELLO
PISTACCHIO
PLATESSA
POLENTA
POLIPO
POLLO
POMODORO
POMPELMO
PORRO

PREZZEMOLO
PRUGNA
QUAGLIA
QUINOA
RABBARBO
RADICCHIO
RANA PESCATRICE
RAVANELLO
RIBES NERO
RIBES ROSSO
RISO
ROMBO
ROSMARINO
RUCOLA
SALMONE
SALVIA
SARDINA
SCALOGNO
SEDANO
SEGALE
SEME DI COLA
SEMI DI GIRASOLE
SEMI DI LINO
SEMI DI MOSTARDA
SEMI DI SESAMO
SEPPIA
SGOMBRO
SOGLIOLA
SOIA
SPIGOLA
SPINACI
STOCCAFISSO
STRUZZO
TACCHINO
TAPIOCA
TE` NERO
TE` VERDE
TIMO
TONNO
TRANSGLUTAMINASI 1gg
TROTA
TUORLO
UVA
UVA PASSA
VANIGLIA
VITELLO
VONGOLA
VONGOLA VERACE
YUCCA
ZAFFERANO
ZENZERO
ZIGOLO DOLCE
ZUCCA
ZUCCHERO DI CANNA
ZUCCHINA