

invitrogen[™] | DYNAL[®]



SSP Typing

Dynal *AllSet*^{+™} SSP

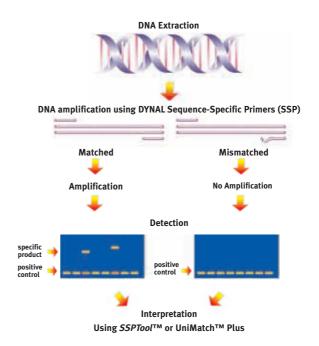
Benefits:	Features:			
 Convenient Product Format Rapid - suitable for on-call typing Easy technique and interpretation Convenient shipping and storage conditions Frequently updated to include new alleles Superior Technical and Customer Service Same thermal cycling parameters for all products allowing building blocks for multi-loci typing (e.g. A, B, DR) 	 One technique for all products Ready to use pre-aliqouted primers Master Mix included Eliminates human pipetting errors Reduces time Colour coded primer mix 1 Stored at 2-8° Results interpretation software - SSPTool[™] supplied free of charge For <i>In Vitro</i> Diagnostic Use 			

Pel-Freez SSP UniTray[®]

Benefits:	Features:
 Comprehensive product portfolio Documentation updated to reflect new alleles on existing kit Colour change guides next steps, reducing pipetting errors Paraffin oil reduces evaporation and lessens the level of random failures and repeats - saves time and cost Post amplification analysis is simple and can be performed with the UniMatch[™] Plus Software for easy interpretation 	 An extensive product line with multiple options for both low and high resolution typing Complete line of Class II High Resolution kits Extensive and developing range of Class I High Resolution kits Unique range of Direct to High Resolution Single Tray kits for allelic level typing Allele Updates Liquid primers overlaid with paraffin oil Colour change with the addition of master mix Each test contains a negative contamination control Same thermal cycling parameters for all kits Roche license available with all UniTray® products For <i>In Vitro</i> Diagnostic Use

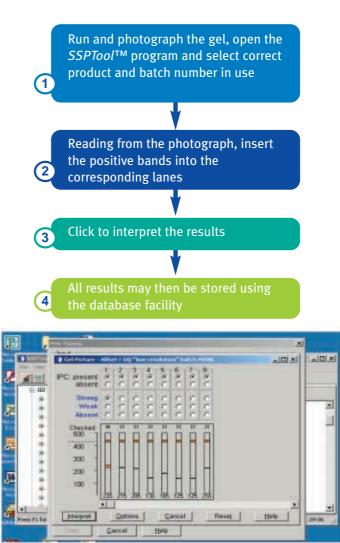
Principle of SSP

- SSP consists of various formulations of allele or group specific primer mixes that are used to amplify genomic DNA
- A perfectly matched primer will be more efficiently used in the PCR reaction than a primer with one or several mismatches in its 3'end
- The PCR-SSP technique provides a high degree of resolution, with each primer pair detecting polymorphisms linked on an individual chromosome – a feature that facilitates the typing of heterozygous individuals



Dynal SSPTool™

- Specially designed software for use with Dynal SSP
- PC-based computer software to AID SSP results interpretation
- Is continuously updated with new products via e-mail – every 2-3 weeks depending on number of newly released kits/batches
- Compatible with Windows 95, Windows 98, Windows ME, Windows NT4, Windows 2000 & Windows XP
- Easy to use



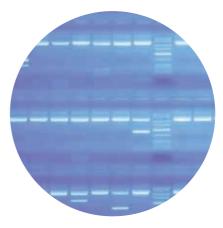
UniMatch[™] Plus Software

- User-friendly analysis software program
- For use with all UniTray[®] products
- Easy 'Point and Click' data entry
- Flexible results display format ability to hide or display both NMDP codes and serologic equivalents
- Multi-Field Search including allele specificity search
- Multiple kit storage capability ability to store results from multiple kits for one patient

					- 12		
nulikation j	Transmist R. (1998	Twit Dame	8/2/01	Reven Date	1		
Campbe (D)	0001	Testeriter	and	flavment to			
art Name:	Seven	Elfres Graver		Purpose of Text			
Not Maner	larm	DIN4 Exmant. Histor	HE .	C Date			
Allowedte	1 months	- DNA Concentration		Canverta			
	13718	DNA Guality	1		-		
Etjant	7/27/03	LievBen		ekert Lance	 - 11		
Statement 1	LAIA		(Day)	CAMP AND A DESCRIPTION OF	 		
outive Laver	TANK STREET, ST	10	1000	68180-01		1.111-12.13.14.3	6 16 17 18 19 20 37 20
NHOP CO	and the second se	Service	-				
	OD 14 3104	2000-000					
		and the second	and the second se				
	B Peter Mater	Single False Show	Hel Per				
Inter Lane							
Telect Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Intertane	1 Service 1-1 AB						
International	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
aller Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Albeit Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Albeit Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Albeit Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Albeit Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Albeit Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
International	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
International	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A		Fulctilian			
Telect Lance	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					
Telect Lane	1 Service 1-1 AB	N 1.2 Seedlogy 1.2 A					

Direct to High Resolution UniTray®

In addition to an extensive line of low resolution and allele specific kits is a range of, Direct to High Resolution UniTray®, that presents a simple, convenient, cost-effective technique for high resolution typing.



Features:	Benefits:
 Straight from genomic DNA to high resolution results, no need for initial low resolution typing Allele level typing with a single tray Unique reaction pattern for most common alleles Can resolve ambiguities seen with other typing techniques Same procedure and thermal cycling conditions as all SSP UniTray[®] products Compatible with UniMatch[™] Plus software Negative control included in all products 	 Saves time and cost Fewer kits to inventory and QC Allele level typing results Cost effective alternative for ambiguity resolution Easy data analysis

Molecular Accessories

DNA Isolation

✓ Pel-Freez DNA Isolation Kit

- Modified Salting-out technique
- Produces a high yield and quality of DNA in under 1 hour
- Excellent results from old and frozen samples
- Flexible scaling sample size is not limited by column size
- Suitable for PCR and other downstream applications
- DNA is stable for long-term storage

Gel Electrophoresis

✓ Electro-Fast[®] Gel Electrophoresis system

- 96 well system
- Fast, convenient and cost-effective
- Increased throughput saves time and money
- Compatible with multi-channel pipettes
- For use with AllSet^{+™}, CombiSet^{+™} and SSP UniTray[®]

✓ OWL Centipede[™] Model D3-14 Gel Electrophoresis system

- 96 well system
- Larger well sizes for easy loading and interpretation
- Compatible with multi-channel pipettes
- For use with AllSet^{+™}, CombiSet^{+™} and SSP UniTray[®]

Reagents

✓ DNA Grade Agarose

- High sieve capacity for optimal resolution
- Low sulphur content allows gels to run faster without becoming brittle
- No DNase or RNase activity

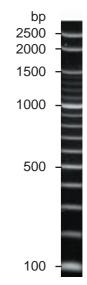
✓ PCR Markers

- Ready to use
- For use in agarose gel electrophoresis for accurate analysis of PCR product sizes
- Available in 50-2000 bp, 100 bp and 50-500 bp









Product Range at a glance... One Stop Shop

invitrogen™

DYNAL[®] Invitrogen Corporation

UniTray [®] SSP Kits	PRODUCT	VOLUME	MOLECULAR		
78000-10BY	ABC	10 tests	ACCESSORIES	PRODUCT	VOLUME
78900-20BY 78100-10BY	ABC Repeat Set AB/DR	20 tests/tube 10 tests	92000-1AW	Electro-Fast [®] Gel System	1
78500-10BY	AB/DR/DQ	10 tests	92001-1AW	Fluorescent Numbering Panel	1
78600-10BY	A-Locus	40 tests	92002-1AW	Single 9-tooth Comb	1
78700-10BY	B-Locus	20 tests	92003-1AW	End Dams	1 set
78300-10BY	C-Locus	40 tests	80000-1AW	OWL Centipede™ Gel System	1
78400-10BY	DR/DQ 2T	20 tests	81000-1AW	Single 1.5mm Comb	1
78410-10BY	DR/DQ 3T	30 tests	81001-1AW	Fluorescent Numbering Panel	1
78200-10BY	DR4T	40 tests	82001-1AW	Casting Chamber	1
45120-3BY	DRB3	12 tests	82002-1AW	Replacement Gaskets	1 pair
45100-2BY	DRB4	12 tests	83000-1AW	Gasketed UV-Transparent Gel	1
45130-2BY	DRB5	12 tests		Tray for OWL Centipede™	
45000-2BY	DRB1*01	12 tests	ISOLATION KITS	PRODUCT	VOLUME
45030-3BY	DRB1*03	12 tests	76100-1AW	DNA Isolation Kit	50 isolations
45040-4BY	DRB1*04	12 tests	REAGENTS	PRODUCT	VOLUME
45110-2BY	DRB1*07	12 tests	74601-250AX	PCR Markers, 50-2000bp	250 µl
45050-4BY	DRB1*08	12 tests	74602-250AX	PCR Markers, 100 bp ladder	250 µl
45060-4BY	DRB1*11	12 tests	74605-250AX	PCR Marker 50-500 bp	250 µl
45070-2BY	DRB1*12	12 tests	75000-500AW	Agarose	500 g
45080-4BY	DRB1*13	12 tests	74100-1BY	PCR Amplification Buffer GL	580 µl
45090-4BY	DRB1*14	12 tests	90000-1AW	Heat Block	1
45010-2BY	DRB1*15	12 tests			
45020-2BY	DRB1*16	12 tests	Dynal <i>AllSet</i> +™		
47120-2BY	A*01	12 tests	SSP Products	PRODUCT	VOLUME
47020-4BY	A*02	12 tests	1001.21-AV	AllSet+ DRB1*07	20 tests
47060-2BY	A*03	12 tests	514.21-AV	CombiSet+ A/B	
47200-4BY	A10	12 tests			10 tests
47080-2BY	A*11	12 tests	550.21-AV	AllSet+ DR low resolution	20 tests
47210-4BY	A19	12 tests	551.21-AV	AllSet+ DRB1*01	20 tests
47170-2BY	A*23	12 tests	552.21-AV	AllSet+ DRB1*04	20 tests
47130-4BY	A*24	12 tests	556.21-AV	AllSet+ DQA1	20 tests
47180-2BY	A*68	12 tests	558.21-AV	AllSet ⁺ B27 low resolution	48 tests
47040-3BY	B*07	12 tests	559.21-AV	AllSet+ DRB1*08/12	20 tests
47070-2BY	B*08	12 tests	560.21-AV	AllSet+ DRB1*11	20 tests
47280-2BY	B*13	12 tests			
47090-2BY	B*14	12 tests	562.21-AV	AllSet+ DRB1*13	20 tests
47010-6BY	 B*15	12 tests	563.21-AV	AllSet+ DRB1*15/16	20 tests
47230-3BY	B17	12 tests	564.21-AV	AllSet ⁺ DQ low resolution	20 tests
47150-2BY	B*18	12 tests	565.21-AV	AllSet+ DRB1*14	20 tests
47270-2BY	B21	12 tests	566.21-AV	AllSet+ DRB1*03	20 tests
47250-3BY	B22	12 tests	568.21-AV	AllSet+ A low resolution	20 tests
47000-3BY	B*27	12 tests	573.21-AV	AllSet+ B low resolution	20 tests
47100-6BY	B*35	12 tests	574.21-AV	AllSet+ DRB3	20 tests
47240-2BY	B*38	12 tests			
47160-3BY	B*39	12 tests	575.21-AV	AllSet+ DRB4	20 tests
47050-4BY	B*40	12 tests	576.21-AV	AllSet ⁺ DRB5	20 tests
47220-2BY	B*45	12 tests	577.21-AV	AllSet ⁺ Cw low resolution	20 tests
47030-3BY	B*44	12 tests	578.21-AV	AllSet ⁺ DPB1	20 tests
47110-3BY	B*51	12 tests	580.21-AV	AllSet+ DQB1*02/04	20 tests
47260-2BY	B*52	12 tests	581.21-AV	AllSet+ DQB1*03	20 tests
DIRECT TO HIGH RES			582.21-AV	AllSet+ DQB1*05	20 tests
47290-10BY	A High Res SSP	10 tests	583.21-AV	AllSet+ DQB1*06	20 tests
47300-10BY	B High Res SSP	10 tests	503.21-AV	AUSEL DUDI 00	20 lesis
47190-10BY	Cw High Res SSP	10 tests	ACCESSORIES		
45150-10BY	DRB96 High Res SSP	10 tests	990.03-AV	AllSet+ Negative Control	24 tests
45140-4BY	DQB1 High Res SSP	12 tests	990.05-AV	AllSet+ General Contamination Control	24 tests
45160-6BY	DPB1 High Res SSP	12 tests	990.99-AW	PCR Sealing Sheets	20 sheets
45170-3BY	DQA1 High Res SSP	12 tests		•	
		12 (0515	ReadySet™		
OTHER SSP ITEMS			SSP Products	PRODUCT	VOLUME
78920-10BY	Cytokine Genotyping Kit	20 tests	54010D	HLA-A High Res SSP	10
78930-3BY	KIR Genotyping SSP Kit	12 tests	54020D	HLA-B High Res SSP	10
					-0
78999-1BY	DNA Wipe Test	128 PCR reactions	54030D	HLA-Cw High Res SSP	10
78999-1BY SOFTWARE	DNA Wipe Test	128 PCR reactions	<u>54030D</u> 54040D	HLA-Cw High Res SSP HLA-DRB1 High Res SSP	10

For your convenience, all of our products are coded to give our required conditions for shipping and storage. This coding immediately follows the product code number – example – 14900-1**BZ**

Shipping Conditions

Storage Conditions

A Ambient B Dry Ice

V 2-8°C W Ambient X +5°C Y -20°C Z -55°C or colder

NOTE: Any UniTray[®] SSP Kit (excluding Cytokine and KIR Genotyping kits) can be ordered as a licensed kit which includes *Taq* Polymerase. Simply use the existing order code for the product you require and change the 5th digit to a '1' e.g to order a licensed B*51 kit (product code 47110-3BY) use order number 47111-3BY

For country-specific contact information visit our website at <u>www.invitrogen.com</u> ©Copyright 2006 Dynal Biotech Ltd., U.K. All rights reserved. Printed: 05.06 Rev. 002 UK029 Design & Print by Dimensions: www.dimensions-studio.co.uk