

PureExtreme™

Highest quality & performance

ISO 9001 | ISO 14001

FastDigest™ Restriction Enzymes

Fast & easy DNA digestion
in 5 minutes!



Fermentas
LIFE SCIENCES

Digest DNA in 5 Minutes!

Fermentas FastDigest™ Enzymes for Fast & Easy DNA Digestion

- **5min** digestion
- **1µl** of enzyme
- **37°C** temperature
- **ONE** FastDigest™ buffer

for **ALL** FastDigest™ enzymes

Satisfaction Guaranteed with User Friendly FastDigest™ Enzymes

FastDigest™ enzymes – a time-saving alternative to conventional restriction enzymes.

Speed up your cloning and clone analysis – digest vectors and recombinant plasmids in 5 minutes with FastDigest™ enzymes.

FastDigest™ enzymes could also be used for efficient cleavage of difficult-to-digest DNA targets.

Proprietary FastDigest™ formulation is based on the PureExtreme™ Quality and performance of Fermentas restriction enzymes.

Count on our extensive experience in enzyme research!



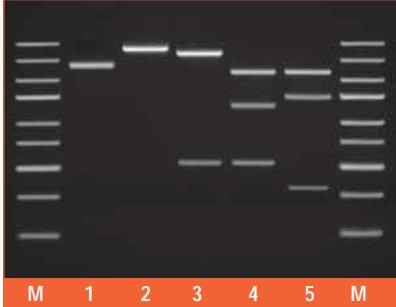
Applications

- Fast clone analysis
- Fast preparation of vectors for cloning
- Other DNA cleavage reactions

Speed-Up Clone Analysis

Save your time! Use Fermentas products for fast clone analysis (see table "Fast Clone Analysis").

Clone Analysis: 5 Minute DNA Digestion with FastDigest™ Enzymes



A recombinant pJET1 plasmid containing 953bp insert was purified from recombinant *E.coli* culture using the GeneJET™ Plasmid Miniprep Kit (#K0501) and digested in 5 minutes with FastDigest™ restriction enzymes.

- M – GeneRuler™ Express DNA Ladder (#SM1551)
- 1 – plasmid containing insert
- 2 – plasmid containing insert, digested with FastDigest™ NotI (#ER0594)
- 3 – plasmid containing insert, digested with FastDigest™ BamHI (#ER0054)
- 4 – plasmid containing insert, double digested with FastDigest™ NotI and FastDigest™ BamHI
- 5 – plasmid containing insert in the opposite orientation, double digested with FastDigest™ NotI and FastDigest™ BamHI

Fast Clone Analysis

	Fast	Conventional
PURE Miniprep DNA GeneJET™ Plasmid Miniprep Kit (#K0501, #K0502, #K0503)	14min	40min
FAST Digestion FastDigest™ restriction enzymes (see on back cover)	5min	60min
EXPRESS Electrophoresis ZipRuler™ Express DNA Ladder Set (#SM1373) GeneRuler™ Express DNA Ladder (#SM1153, SM1163) FastRuler™ DNA Ladder, Middle Range (#SM1113)	15min	40min
TIME SAVED	34min	versus 140min

Analyze clones faster with the Fermentas fast products!

Fermentas Products for Fast Procedures

Product	Catalog #	Amount	Product	Catalog #	Amount
NEW FastDigest™ Restriction Enzymes	see list on back cover		NEW ZipRuler™ Express DNA Ladder Set	SM1373	2x50µg
NEW GeneJET™ Fast PCR Master Mix (2X)	K0211	250 reactions	NEW GeneRuler™ Express DNA Ladder	SM1551	50µg
NEW GeneJET™ PCR Cloning Kit	K1221	20 reactions	NEW GeneRuler™ Express DNA Ladder	SM1552	250 (5x50)µg
	K1222	40 reactions	NEW GeneRuler™ Express DNA Ladder, ready-to-use	SM1553	50µg (100 applications)
	K1421	10 reactions	NEW O'GeneRuler™ Express DNA Ladder, ready-to-use	SM1563	50µg (100 applications)
Rapid DNA Ligation Kit	K1422	50 reactions	NEW MassRuler™ Express DNA Ladder, LR Forward, ready-to-use	SM1263	2x500µl
	K1423	150 reactions	NEW MassRuler™ Express DNA Ladder, LR Reverse, ready-to-use	SM1273	2x500µl
	K1431	10 reactions	NEW MassRuler™ Express DNA Ladder, HR Forward, ready-to-use	SM1243	2x500µl
Rapid DNA Ligation & Transformation Kit	K1432	30 reactions	NEW MassRuler™ Express DNA Ladder, HR Reverse, ready-to-use	SM1253	2x500µl
	K0501	25 preps	NEW MassRuler™ Express DNA Ladder Mix, Forward, ready-to-use	SM1283	2x500µl
	NEW GeneJET™ Plasmid Miniprep Kit	K0502	50 preps	NEW MassRuler™ Express DNA Ladder Mix, Reverse, ready-to-use	SM1293
	K0503	250 preps	NEW FastRuler™ DNA Ladder, Ultra Low Range	SM1233	2x500µl
TransformAid™ Bacterial Transformation Kit	K2710	20 transformations	FastRuler™ DNA Ladder, Low Range	SM1103	2x500µl
	K2711	40 transformations	FastRuler™ DNA Ladder, Middle Range	SM1113	2x500µl
FastMedia™ LB Liquid Amp	M0011	20 pouches	FastRuler™ DNA Ladder, High Range	SM1123	2x500µl
FastMedia™ LB Agar Amp	M0021	20 pouches			
FastMedia™ LB Agar Amp IPTG/X-Gal	M0031	20 pouches			

PureExtreme™ Quality & Performance

FastDigest™ Enzymes	Prototypes	Specificity 5'→3'	Catalog #	Amount, reactions
FastDigest™ Apal	–	GGGCC↓C	ER1414	100
FastDigest™ BamHI	–	G↓GATCC	ER0054	200
FastDigest™ BcuI	SpeI	A↓CTAGT	ER1254	50
FastDigest™ BglI	–	GCCNNNN↓NGGC	ER0074	100
FastDigest™ BglII	–	A↓GATCT	ER0084	50
FastDigest™ BshTI	AgeI	A↓CCGGT	ER1464	50
FastDigest™ Bsp119I	AsuI	TT↓CGAA	ER0124	200
FastDigest™ Bsp1407I	–	T↓GTACA	ER0934	50
FastDigest™ Bst1107I	SnaI	GTA↓TAC	ER0704	50
FastDigest™ BstXI	–	CCANNNN↓NTGG	ER1024	50
FastDigest™ Bsu15I	Clal	AT↓CGAT	ER0144	50
FastDigest™ Cfr10I	–	R↓CCGGY	ER0184	50
FastDigest™ DraI	AhaII	TTT↓AAA	ER0224	200
FastDigest™ Eco32I	EcoRV	GAT↓ATC	ER0304	100
FastDigest™ Eco47III	–	AGC↓GCT	ER0324	50
FastDigest™ Eco88I	AvaI	C↓YCGRG	ER0384	100
FastDigest™ Eco105I	SnaBI	TAC↓GTA	ER0404	50
FastDigest™ Eco130I	StyI	C↓CWWGG	ER0414	100
FastDigest™ Eco147I	StuI	AGG↓CCT	ER0424	50
FastDigest™ EcoRI	–	G↓AATC	ER0274	200
FastDigest™ HincII	HindII	GTY↓RAC	ER0494	50
FastDigest™ HindIII	–	A↓AGCTT	ER0504	200
FastDigest™ KpnI	–	GGTAC↓C	ER0524	100
FastDigest™ Kpn2I	BspMI	T↓CCGGA	ER0534	50
FastDigest™ KspAI	HpaI	GTT↓AAC	ER1034	50
FastDigest™ LguI	SapI	GCTCTTC(1/4)↓	ER1934	50
FastDigest™ MluI	–	A↓CGCGT	ER0564	100
FastDigest™ Mph1103I	AvallI	ATGCA↓T	ER0734	50
FastDigest™ MunI	MfeI	C↓AATTG	ER0754	50
FastDigest™ NcoI	–	C↓CATGG	ER0574	50
FastDigest™ NdeI	–	CA↓TATG	ER0584	50
FastDigest™ NotI	–	GC↓GGCCGC	ER0594	50
FastDigest™ NsbI	MstI	TGC↓GCA	ER1224	50
FastDigest™ PaeI	SphI	GCATG↓C	ER0604	50
FastDigest™ Psp1406I	AclI	AA↓CGTT	ER0944	50
FastDigest™ PstI	–	CTGCA↓G	ER0614	200
FastDigest™ PvuI	–	CGAT↓CG	ER0624	50
FastDigest™ PvuII	–	CAG↓CTG	ER0634	200
FastDigest™ SacI	–	GAGCT↓C	ER1134	50
FastDigest™ Sall	–	G↓TCGAC	ER0644	100
FastDigest™ Sdal	Sse8387I	CCTGCA↓GG	ER1194	50
FastDigest™ SmaI	–	CCC↓GGG	ER0664	50
FastDigest™ Smil	Swal	ATTT↓AAAT	ER1244	50
FastDigest™ SspI	–	AAT↓ATT	ER0774	50
FastDigest™ VspI	–	AT↓TAAT	ER0914	100
FastDigest™ XapI	ApoI	R↓AATTY	ER1384	50
FastDigest™ XbaI	–	T↓CTAGA	ER0684	200
FastDigest™ XhoI	–	C↓TCGAG	ER0694	200
FastDigest™ XmaJI	AvrII	C↓CTAGG	ER1564	50
FastDigest™ XmiI	AccI	GT↓MKAC	ER1484	50



Highest quality & performance

We guarantee that these products are free of contaminating activities.

Our stringent quality control with the most advanced tests guarantees you pure products for your experiments.

ISO9001 and ISO14001 is your assurance of consistency and lot-to-lot reproducibility.

PureExtreme™ Quality will provide the performance you need for your most demanding experiments.

R = G or A
Y = C or T
W = A or T
M = A or C
K = G or T
S = C or G
H = A, C or T
V = A, C or G
B = C, G or T
D = A, G or T
N = G, A, T or C

Visit www.fermentas.com for complete information and updated list of FastDigest™ restriction enzymes

FastDigest, FastMedia, FastRuler, GeneJET, GeneRuler, MassRuler, O'GeneRuler, PureExtreme, TransformAid and ZipRuler are Fermentas trademarks