The Handy Bt Trait Table

for U.S. Corn Production

Updated February 2021

An up-to-date version of the table is posted at https://www.texasinsects.org/bt-corn-trait-table.html Web host: Pat Porter, Texas A&M University Editor: Chris DiFonzo, Michigan State University, difonzo@msu.edu

The Handy Bt Trait Table provides a helpful list of trait names (below) and details of trait packages (over) to make it easier to understand company seed quides, sales materials, and bag tags.

A new mode of action in 2021 - RNA interference (RNAi). SmartStax-Pro is the first trait package to include RNAi technology for pest control, with one species (corn) interfering with protein production in another species (corn rootworm).

- Imagine a recipe book, and a chef who turns the written directions into a cake. In an organism, the DNA (the recipe book) in each cell contains the genes (the recipes) to make the proteins (cakes) needed for survival and growth. RNA molecules are a bit like 'chefs' directing this process. Interfering with a chef results in no 'cake' from a gene recipe. This interference is called gene silencing. It happens naturally, but it also is the mode of action for new non-browning GMO apple and potato lines.
- SmartStax-Pro hybrids are modified to produce RNA fragments which silence the Dvsnf7 gene, the 'recipe' for a key protein in the rootworm gut. Larvae ingest dsRNA as they feed on the roots. The RNA molecules interfere with production of the protein in the midgut and the larvae eventually die. The mode of action is specific to rootworm and it doesn't involve making a Bt toxin.
- The RNAi trait in SmartStax-Pro will be pyramided with Cry3Bb1 and Cry34/35Ab1, giving plants three modes of action against rootworm; this will be helpful in areas with Bt-resistant rootworm populations. However, there is no guarantee that rootworms won't develop resistance to RNAi! Demonstration sites will be planted in 2021 and seed will be commercially available in 2022.

Happy Birthday, Bt corn. 2021 marks the 25th year of commercialization of Bt corn in the U.S. The first Bt hybrids produced only one toxin, Cry1Ab, for European corn borer control. Bt has come a long way since then, given the laundry list of trade names in the current table. Bt hybrids are now planted on >80% of U.S. corn acres. The benefits of widespread use of Bt hybrids include a reduction in corn borer in the landscape (benefitting conventional corn & vegetables too), and an overall reduction in insecticide use. Costs include increasing problems of insect resistance, overuse of neonicotinoid seed treatments, and the literal high price of seed. 25 more years? We'll see.....



Field corn 'events' (transformations of one or more genes) and their Trade Names

Trade name for trait	Event	Bt toxin or other trait expressed	Primary Insect Targets + Herbicide tolerance
Agrisure CB/LL	Bt11	Cry1Ab + PAT	corn borer + glufosinate tolerance
Agrisure Duracade	5307	eCry3.1Ab	rootworm
Agrisure GT	GA21	EPSPS	glyphosate tolerance
Agrisure RW	MIR604	mCry3A	rootworm
Agrisure Viptera	MIR162	Vip3Aa20	broad caterpillar control, except for corn borer
Enlist	DAS40278	aad-1	2,4-D & 'FOPs'
Herculex I (HXI) or CB	TC1507	Cry1Fa2 + PAT	corn borer + glufosinate tolerance
Herculex RW	DAS-59122-7	Cry34Ab1/Cry35Ab1 + <i>PAT</i>	rootworm + glufosinate tolerance
Roundup Ready 2	NK603	EPSPS	glyphosate tolerance
Yieldgard Corn Borer	MON810	Cry1Ab	corn borer
Yieldgard Rootworm	MON863	Cry3Bb1	rootworm
Yieldgard VT Pro	MON89034	Cry1A.105 + Cry2Ab2	corn borer & several caterpillar species
Yieldgard VT Rootworm	MON88017	Cry3Bb1 + EPSPS	rootworm + glyphosate tolerance
(None – in Qrome)	DP-4114	Cry1F + Cry34Ab1/Cry35Ab1 + <i>PAT</i>	corn borer + rootworm + glufosinate tolerance
(None – in SmartStax Pro)	MON87411	Cry3Bb1 + DvSnf7 dsRNA + EPSPS	rootworm + glyphosate tolerance

Abbreviations
used in the
Trait Table

Herbicide tolerance E Enlist - 2,4-D and 'FOPs' G glyphosate

R Roundup Ready 2 - glyphosate

LL Liberty Link - glufosinate

Insect targets BCW black cutworm CEW corn earworm CR corn rootworm (N- Northern, W- Western)

ECB European corn borer

SB SCB SWB

FAW fall armyworm stalk borer sugarcane borer

southwestern corn borer TAW true armyworm

WBC western bean cutworm

The Handy Bt Trait Table for U.S. Corn Production, updated February 2020 Marketed for control of: **Resistance confirmed** Herbicide Trait packages in Bt protein(s) <u>trait</u> to the combination of SS (or other trait) alphabetical order G L E В С Bts in package C Ε C Α S C W A (acronym that may be used) in package B B W C (check local situation) W W В R W В AcreMax (AM) Cry1Ab Cry1F CEW FAW WBC Х Х Х Х х Х AcreMax CRW (AMRW) Cry34/35Ab1 NCR WCR Х х х Cry1F Cry34/35Ab1 ECB FAW SWB WBC AcreMax1 (AM1) Х Х Х Х Х Х х х NCR WCR

Non-Bt

Refuge %

(cornbelt)

5% in bag

10% in bag

10% in bag

20% ECB

20%

20%

20%

a5%

c20%

20%

20%

20%

b5% in bag

D10% in bag

Х Х

Х Х

Х Х

Х

Х

Х

Х

Х

WCR

AcreMax Leptra	(AML)	Cry1Ab Cry1F Vip3A	х	Х	Х	Х	Х	Х	Х	Х	Х			Х	х	5% in bag
AcreMax TRIsect	(AMT)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	х	 10% in bag
		mCry3A											WCR			
AcreMax Xtra	(AMX)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	Х	 10% in bag
		Cry34/35Ab1											NCR WCR			
AcreMax Xtreme	(AMXT)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	х	 5% in bag
		mCry3A Cry34/35Ab1											WCR			
Agrisure 3010	(BR)	Cry1Ab		Х	Х			Χ	Х				CEW	Х	х	 20%

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	mCry3A											WCR				
AcreMax Xtra (AMX)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	Х	П	10% in bag
	Cry34/35Ab1											NCR WCR				
AcreMax Xtreme (AMXT)	Cry1Ab Cry1F	х	Х	х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	Х	П	5% in bag
	mCry3A Cry34/35Ab1											WCR				
Agrisure 3010 (BR)	Cry1Ab		Х	Х			Х	Х				CEW	х	х		20%
Agrisure 3000GT & 3011A	Cry1Ab mCry3A		х	Х			Х	Х			Х	CEW WCR	х	х		20%
Agrisure Viptera 3110 (VR)	Cry1Ab Vip3A	х	Х	Х	Х	х	Х	Х	Х	Х			х	х		20%
	0 441 1/1 04 0 04									-		11100		-		0.00/

AcreMax Xtreme	(AMXT)	Cry1Ab Cry1F	х	Х	х	Х	Х	Х	х			Х	CEW FAW WBC	Х	х	5% in bag
		mCry3A Cry34/35Ab1											WCR			
Agrisure 3010	(BR)	Cry1Ab		Х	Х			Х	Х				CEW	х	х	20%
Agrisure 3000GT & 3011A		Cry1Ab mCry3A		Х	Х			Х	Х			Х	CEW WCR	х	х	20%
Agrisure Viptera 3110	(VR)	Cry1Ab Vip3A	х	Х	Х	Х	Х	Х	Х	Х	Х			х	х	20%
Agrisure Viptera 3111	(A4)	Cry1Ab Vip3A mCry3A	х	Х	Х	Х	Х	Х	Х	Х	Х	Х			х	20%
Agrisure 3120 E-Z Refuge	(BZ)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	х				CEW FAW WBC	Х	See	5% in bag
Agrisure 3122 F-7 Refuge		Crv1Ab Crv1F	x	х	×	Х	х	Х	х			х	CFW FAW WBC	х	b .	5% in bag

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Agrisure 3000GT & 3011A		Cry1Ab mCry3A		Х	Х			Х	Х			Х	CEW WCR	Х	Х	20%
Agrisure Viptera 3110	(VR)	Cry1Ab Vip3A	Х	Х	Х	Х	Х	Х	Х	Х	Х			Х	Х	20%
Agrisure Viptera 3111	(A4)	Cry1Ab Vip3A mCry3A	Х	Х	х	Х	х	Х	Х	Х	Х	Х	WCR	Х	Х	20%
Agrisure 3120 E-Z Refuge	(BZ)	Cry1Ab Cry1F	Х	Х	Х	Х	Х	Х	Х				CEW FAW WBC	Х	See	5% in bag
Agrisure 3122 E-Z Refuge		Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	х	ba ba	5% in bag
		mCry3A Cry34/35Ab1											WCR	1 3	g ta	
Agrisure Viptera 3220 E-Z	(VZ)	Cry1Ab Cry1F Vip3A	Х	х	х	Х	х	Х	х	Х	х			х	ù	5% in bag
Agrisure Viptera 3330 E-Z		Cry1Ab Vip3A	х	Х	х	Х	Х	Х	Х	Х	Х			х	EZ0	5% in bag
		Cn/1 A 10E /Cn/2 Ab2												1 '	: 11 :	

Agrisure Viptera 3111 (A4)	Cry1Ab Vip3A mCry3A	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	WCR		х	: 1	20%
Agrisure 3120 E-Z Refuge (BZ)	Cry1Ab Cry1F	х	Х	х	Х	х	Х	х				CEW FAW WBC	Х	See		5% in bag
Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F	х	Х	х	Х	х	Х	х			Х	CEW FAW WBC	Х	ba		5% in bag
	mCry3A Cry34/35Ab1											WCR		8		
Agrisure Viptera 3220 E-Z (VZ)	Cry1Ab Cry1F Vip3A	х	Х	Х	Х	х	Х	Х	Х	Х			Х	tag.		5% in bag
Agrisure Viptera 3330 E-Z	Cry1Ab Vip3A	х	Х	х	Х	х	Х	х	Х	Х			Х	EZ0		5% in bag
	Cry1A.105/Cry2Ab2													"		
Agrisure Duracade 5122 E-Z (D1)	Cry1Ab Cry1F	х	Х	х	Х	х	Х	х			Х	CEW FAW WBC	Х	8		5% in bag
	mCry3A eCry3.1Ab											WCR		Ę		
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A	х	Х	х	Х	х	Х	х	Х	Х	Х	WCR	Х	ii.		5% in bag
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Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC		ba	5% in bag
	mCry3A Cry34/35Ab1											WCR		e ta	
Agrisure Viptera 3220 E-Z (VZ)	Cry1Ab Cry1F Vip3A	Х	Х	Х	Х	х	Х	х	Х	х			Х	άď	5% in bag
Agrisure Viptera 3330 E-Z	Cry1Ab Vip3A	х	Х	Х	Х	х	х	х	Х	х			х	EZ0	5% in bag
	Cry1A.105/Cry2Ab2														
Agrisure Duracade 5122 E-Z (D1)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	5	 5% in bag
	mCry3A eCry3.1Ab											WCR		EZ1	
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	WCR	Х	ш	5% in bag
	mCry3A eCry3.1Ab													yes	
Herculex I (HXI)	Cry1F	Х		Х	Х	Х	Х	Х				ECB FAW SWB WBC	Х	Х	20%
Herculex RW (HXRW)	Cry34/35Ab1										Х	NCR WCR	х	Х	20%

Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F	х	Х	х	Х	х	Х	х			Х	CEW FAW WBC	Х	ba	5% in bag
	mCry3A Cry34/35Ab1											WCR		8	
Agrisure Viptera 3220 E-Z (VZ)	Cry1Ab Cry1F Vip3A	х	Х	х	Х	х	х	Х	х	х			Х	<u>, , , , , , , , , , , , , , , , , , , </u>	5% in bag
Agrisure Viptera 3330 E-Z	Cry1Ab Vip3A	х	Х	х	Х	х	Х	х	Х	х			Х	EZ0	5% in bag
	Cry1A.105/Cry2Ab2													"	
Agrisure Duracade 5122 E-Z (D1)	Cry1Ab Cry1F	х	Х	Х	Х	х	Х	х			Х	CEW FAW WBC	Х	5	5% in bag
	mCry3A eCry3.1Ab											WCR		EZ1	
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A	х	Х	Х	Х	х	Х	х	Х	Х	Х	WCR	Х		5% in bag
	mCry3A eCry3.1Ab													yes	
Herculex I (HXI)	Cry1F	х		Х	Х	Х	Х	х				ECB FAW SWB WBC	х	х	20%

	THICIYSA CIYS4/SSAUL										WCK		: ct	لــــــــــــــــــــــــــــــــــــــ	
Agrisure Viptera 3220 E-Z (VZ	Cry1Ab Cry1F Vip3A	х х	Х	х	х	х	х	Х	х			Х	tag.		5% in bag
Agrisure Viptera 3330 E-Z	Cry1Ab Vip3A	х х	Х	Х	Х	Х	х	Х	Х			Х	EZ0		5% in bag
	Cry1A.105/Cry2Ab2														
Agrisure Duracade 5122 E-Z (D1)	Cry1Ab Cry1F	х х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	6		5% in bag
	mCry3A eCry3.1Ab										WCR		EZ1		
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A	х х	Х	Х	Х	Х	Х	Х	Х	Х	WCR	Х	п		5% in bag
	mCry3A eCry3.1Ab												yes		
Herculex I (HXI)	Cry1F	Х	Х	Х	Х	Х	Х				ECB FAW SWB WBC	Х	Х		20%
Herculex RW (HXRW	Cry34/35Ab1									Х	NCR WCR	Х	Х		20%

Agrisure Viptera 3220 E-2 (VZ)	Cry1Ab Cry1F VID3A	Х	Х	X	X	X	Х	X	Х	X			X	·-	5% in bag
Agrisure Viptera 3330 E-Z	Cry1Ab Vip3A	х	Х	х	Х	Х	Х	Х	Х	х			х	EZ0	5% in bag
	Cry1A.105/Cry2Ab2													"	
Agrisure Duracade 5122 E-Z (D1)	Cry1Ab Cry1F	х	Х	Х	Х	Х	Х	Х			Х	CEW FAW WBC	х	٥ :	5% in bag
	mCry3A eCry3.1Ab											WCR		EZ1	
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A	х	Х	х	Х	х	Х	х	Х	х	Х	WCR	х	ıı,	5% in bag
	mCry3A eCry3.1Ab													yes	
Herculex I (HXI)	Cry1F	Х		Х	Х	Х	Х	Х				ECB FAW SWB WBC	Х	Х	20%
Herculex RW (HXRW)	Cry34/35Ab1										Х	NCR WCR	Х	Х	20%
Horoulay VTDA (HVV)	Cnv1E Cnv24/25Ab1	~		· ·		V	V	. v			_	ECD EV/V/ C/V/D /V/DC	V :	· ·	20%

CI YIA.103/CI YZAUZ							E						: - :	
Cry1Ab Cry1F	Х	Х	х	Х	Х	Х	Х			Х	CEW FAW WBC	Х	5	5% in bag
mCry3A eCry3.1Ab											WCR		<u>E</u> 21	
Cry1Ab Cry1F Vip3A	Х	Х	х	Х	Х	Х	х	Х	Х	Х	WCR			5% in bag
mCry3A eCry3.1Ab													yes	
Cry1F	Х		х	Х	Х	Х	Х				ECB FAW SWB WBC	Х	Х	20%
Cry34/35Ab1										Х	NCR WCR	Х	Х	20%
Cry1F Cry34/35Ab1	Х		х	Х	Х	Х	Х			Х	ECB FAW SWB WBC	Х	Х	20%
											NCR WCR			
	Cry1Ab Cry1F mCry3A eCry3.1Ab Cry1Ab Cry1F Vip3A mCry3A eCry3.1Ab Cry1F Cry34/35Ab1	Cry1Ab Cry1F x mCry3A eCry3.1Ab Cry1F Vip3A x mCry3A eCry3.1Ab Cry1F x Cry34/35Ab1	Cry1Ab Cry1F x x mCry3A eCry3.1Ab x x Cry1Ab Cry1F Vip3A x x mCry3A eCry3.1Ab x x Cry1F x x x Cry34/35Ab1 x x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x	Cry1Ab Cry1F x

	mCry3A eCry3.1Ab											WCR		21	
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A	Х	Х	Х	Х	х	Х	Х	Х	Х	Х	WCR	Х	п	5% in bag
	mCry3A eCry3.1Ab													yes	
Herculex I (HXI)	Cry1F	Х		Х	X	х	Х	Х				ECB FAW SWB WBC	Х	Х	 20%
Herculex RW (HXRW)	Cry34/35Ab1										Х	NCR WCR	Х	х	20%
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	Х		Х	X	Х	Х	Х			Х	ECB FAW SWB WBC	Х	х	 20%
												NCR WCR			
Intrasect (YHR)	Crv1Ab Crv1F	х	х	Ιx	X	х	Х	×				CEW FAW WBC	х	х	 5%

Х

CEW FAW WBC

CEW FAW WBC

ECB FAW SWB WBC

NCR

WCR

CEW

CEW

CEW

CEW

Х

NCR WCR

NCR WCR

NCR WCR

WCR

Intrasect TRIsect

Intrasect Xtra

TRIsect

VT DoublePRO a

VT TriplePRO c

VT2P RIB Complete^b

VT3P RIB Complete d

Yieldgard Corn Borer

Yieldgard Rootworm

Yieldgard VT Triple

(CYHR)

(YXR)

(CHR)

(VT2P)

(VT3P)

(YGCB)

(YGRW)

(VT3)

(VT2PRIB)

(VT3PRIB)

Cry1Ab Cry1F

Cry1Ab Cry1F

Cry1F mCry3A

Cry3Bb1

Cry1Ab

Cry3Bb1

Cry1A.105/Cry2Ab2

Cry1A.105/Cry2Ab2

Cry1Ab Cry3Bb1

Cry34/35Ab1

mCry3A

Intrasect Xtreme	(CYXR)	Cry1Ab Cry1F	х	Х	х х	Х	Х	()	(Х	CEW FAW WBC	Х	х	5%
		mCry3A Cry34/35Ab1										WCR			
Leptra	(VYHR)	Cry1Ab Cry1F Vip3A	х	Х	х х	Х	Х	()	κ x	Х			Х	х	5%
Powercore ^a	(PW)	Cry1A.105/Cry2Ab2	х	Х	х х	Х	Х	()	(CEW WBC	Х	х	a5%
PW Refuge Advanced b	(PWRA)	Cry1F													^b 5% in bag

Х Х Х Х Х Х Х

х

		mCry3A Cry34/35Ab1	WCR	<u> </u>	
Leptra	(VYHR)	Cry1Ab Cry1F Vip3A	(X X X X X X X X X X	хх	5%
Powercore ^a	(PW)	Cry1A.105/Cry2Ab2	(x x x x x x x CEW WBC	хх	a5%
PW Refuge Advanced b	(PWRA)	Cry1F			^b 5% in bag
Powercore Enlist	(PWE)	Same as Powercore	x x x x x x x Same as Powercore	х х х	5% in bag
					+

сериа	(V 1 1 1111)	CIVIAD CIVII VIPSA	^	^	: ^	. ^	٠ .	^ :	^ :	^ :	^ : ^			_ ^	: ^	:	370
Powercore ^a	(PW)	Cry1A.105/Cry2Ab2	Х	Х	Х	×	()	х	Х	Х			CEW WBC	х	Х		a5%
PW Refuge Advanced b	(PWRA)	Cry1F													<u>i </u>		b5% in bag
Powercore Enlist	(PWE)	Same as Powercore	Х	Х	Х	>	()	х	Х	Х			Same as Powercore	Х	Х	Х	5% in bag
QROME	(Q)	Cry1Ab Cry1F	Х	х	Х	×	()	Х	х	Х		Х	CEW FAW WBC	х	Х		5% in bag

PW Refuge Advanced	d ^b (PWRA)	Cry1F											<u> </u>		b5% in bag
Powercore Enlist	(PWE)	Same as Powercore	х	Х	х	х	Х	Х	х		Same as Powercore	х	х	Х	5% in bag
QROME	(Q)	Cry1Ab Cry1F	х	х	х	Х	х	х	х	Х	CEW FAW WBC	х	Х		5% in bag
		mCry3A Cry34/35Ab1									WCR				
Connection 3	(CV CTV CC)	Cm.1 A 10F /Cm.2 Ah2									CEM MIDC			:	3F0/

1 0 1 0 1 0 1 0 1 0 1 0 1	Same as i owercore	X X X X X X	` ^	Same as i overcore		δ 2
QROME (Q)	Cry1Ab Cry1F	x x x x x x x	x x	CEW FAW WBC	хх	5% in bag
	mCry3A Cry34/35Ab1			WCR		
SmartStax ^a (SX,STX or SS)	Cry1A.105/Cry2Ab2	x x x x x x	x x	CEW WBC	хх	a5%
STX Refuge Advanced b (SXRA)	Cry1F Cry3Bb1			NCR WCR		

				2			-						•	•	
SmartStax ^a (SX,STX or SS	Cry1A.105/Cry2Ab2	х	Х	Х	Х	Х	Х	Х		Х	CEW WBC	Х	х		a5%
STX Refuge Advanced b (SXRA)	Cry1F Cry3Bb1										NCR WCR				
STX RIB Complete b (STXRIB)	Cry34/35Ab1														^b 5% in bag
SmartStax Enlist (SXE)	Same as SmartStax	Τx	Х	Х	Х	Х	Х	Ιx		Х	Same as SmartStax	х	Σ	÷χ	5% in bag

STX RIB Complete b (STXRIB)	Cry34/35Ab1															^b 5% in bag
SmartStax Enlist	(SXE)	Same as SmartStax	х	Х	х	Х	х	Х	Х			Х	Same as SmartStax	Х	х	Х	5% in bag
SmartStax Pro		Same as SmartStax	х	Х	х	Х	х	Х	х			Х	CEW WBC	х	х		5% in bag
*2022 commercialization	date	+ DvSnf7 dsRNA															
Trecepta ^a	(TRE)	Cry1A.105/Cry2Ab2	х	Х	Х	Х	Х	Х	Х	Х	Х			Х			a5%
Trecepta RIB Complete ^b (TRERIB)	Vip3A															^b 5% in bag

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