

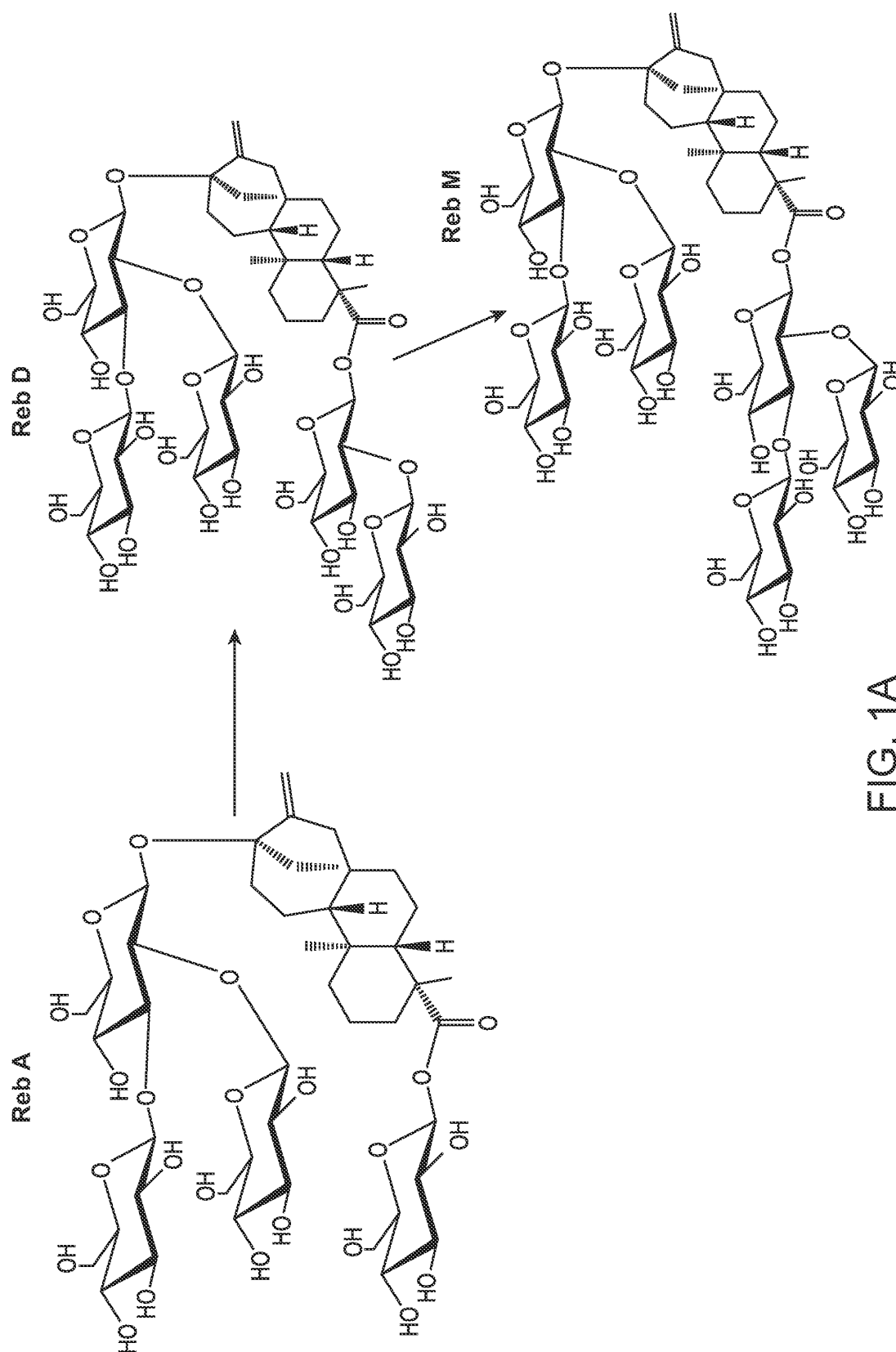


FIG. 1A



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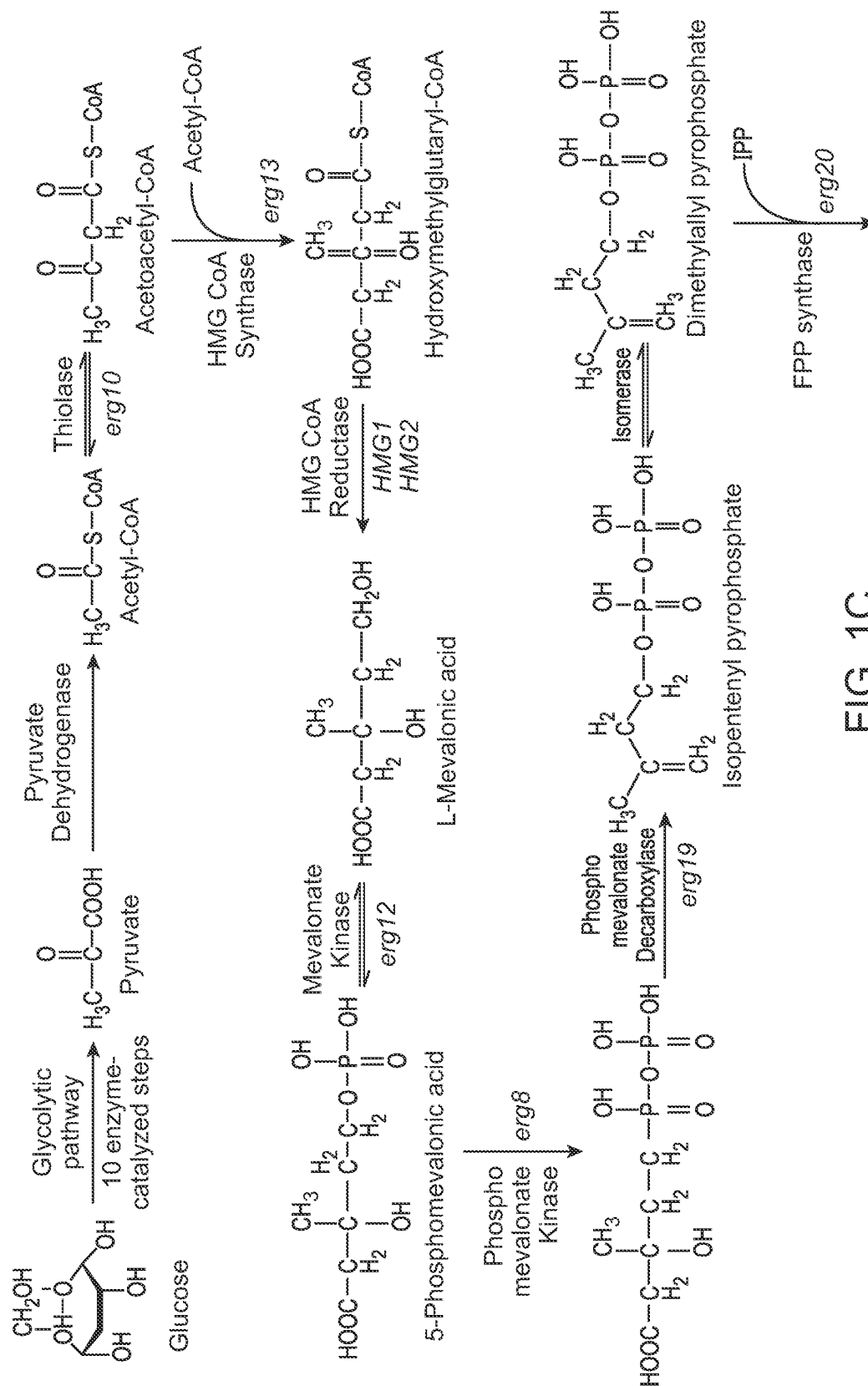


FIG. 1C

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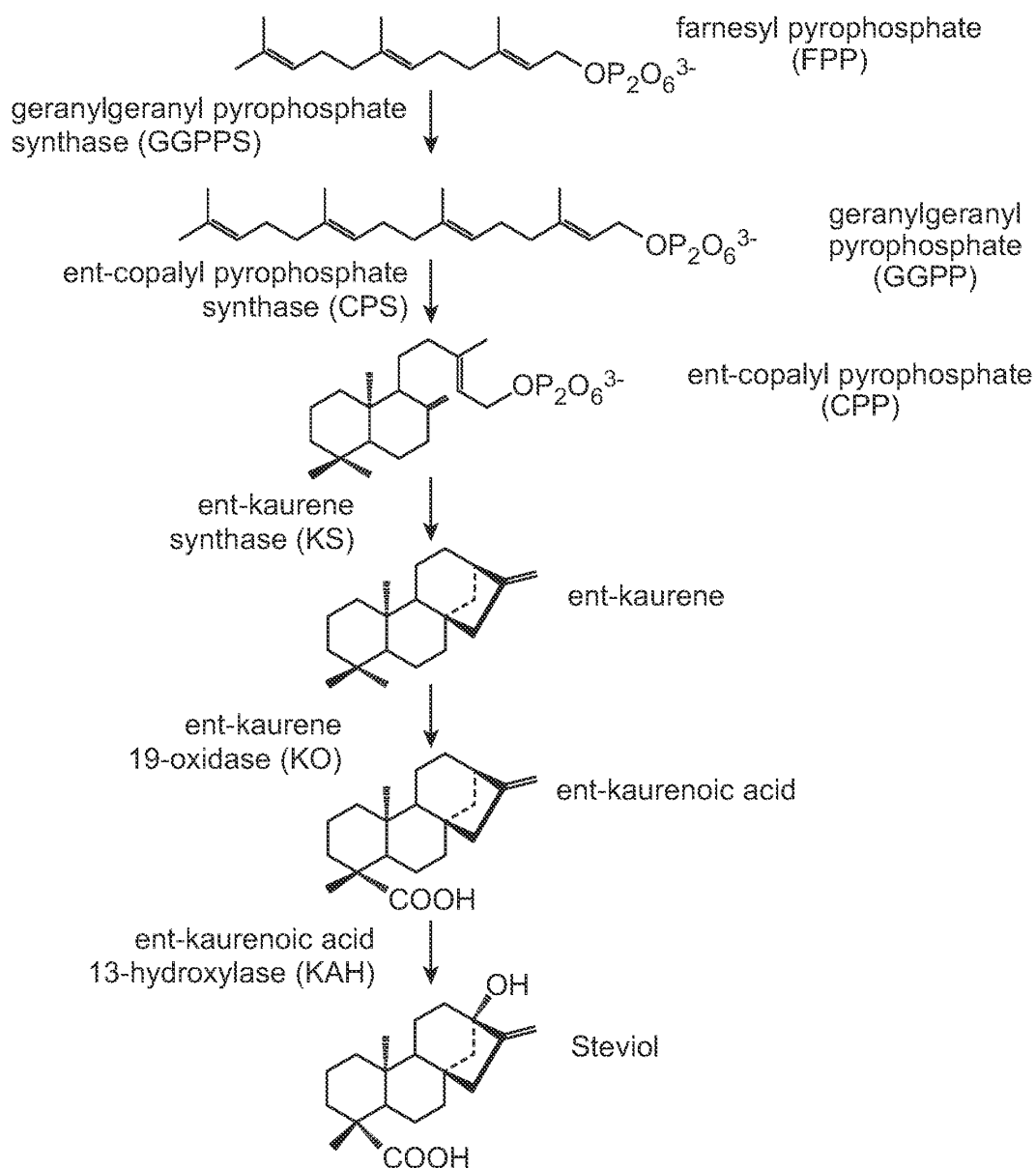
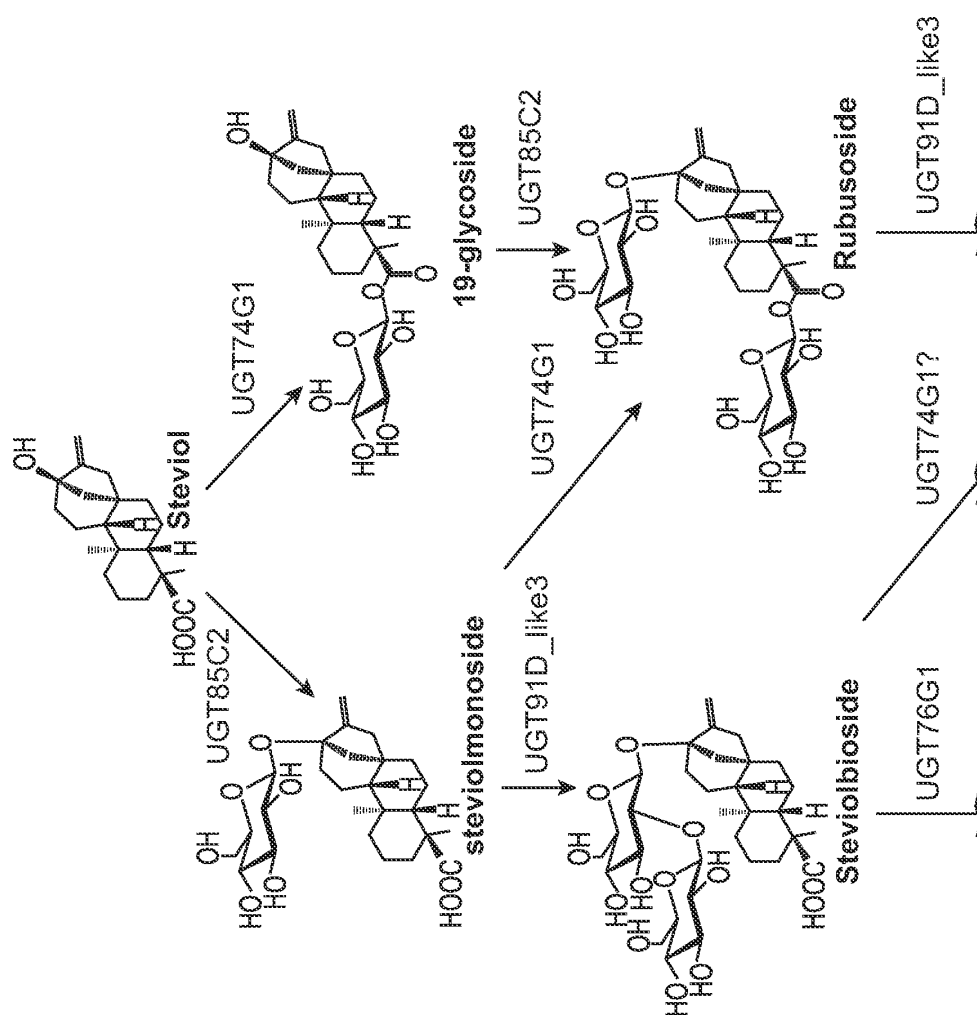


FIG. 2A



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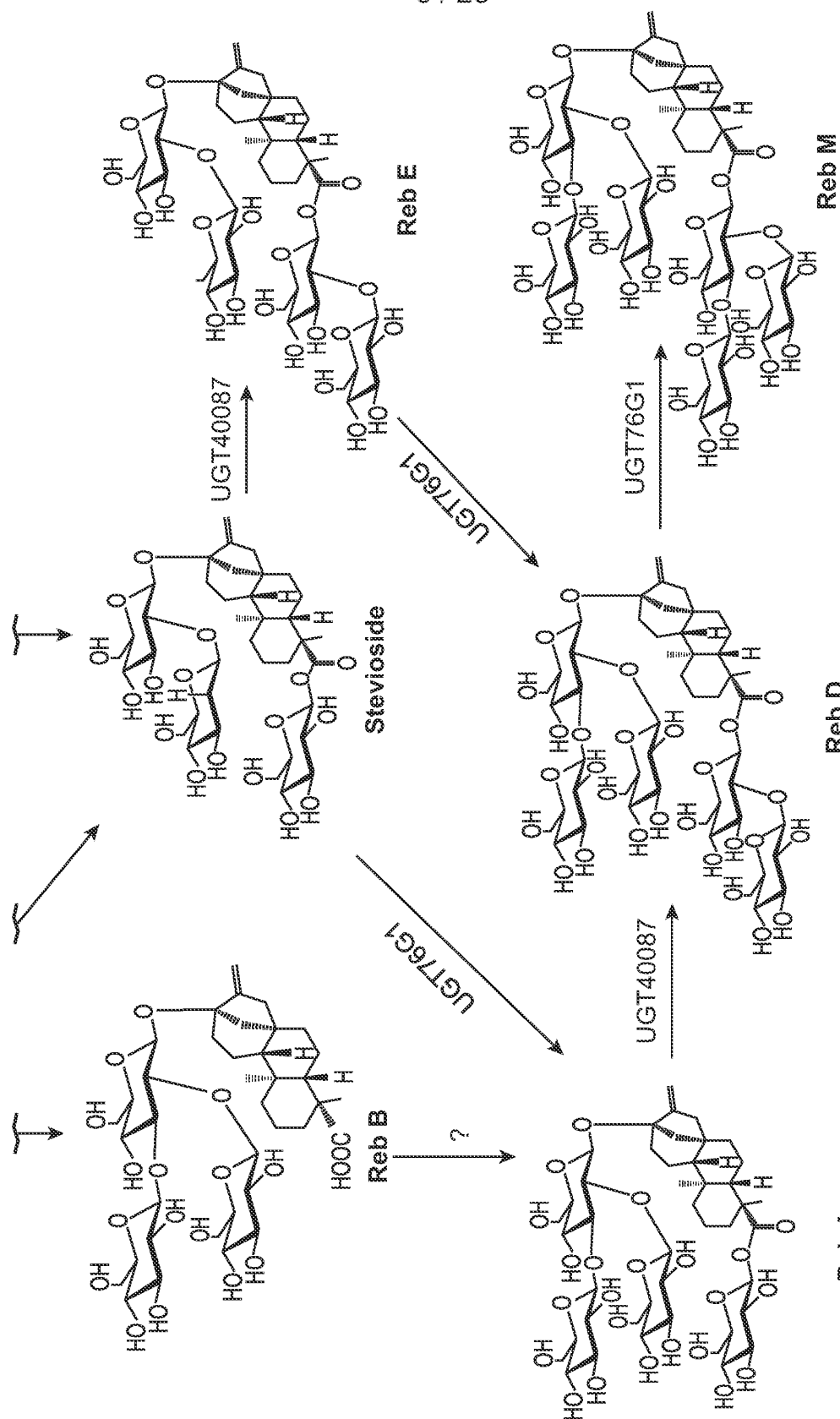


FIG. 2B (Cont.)

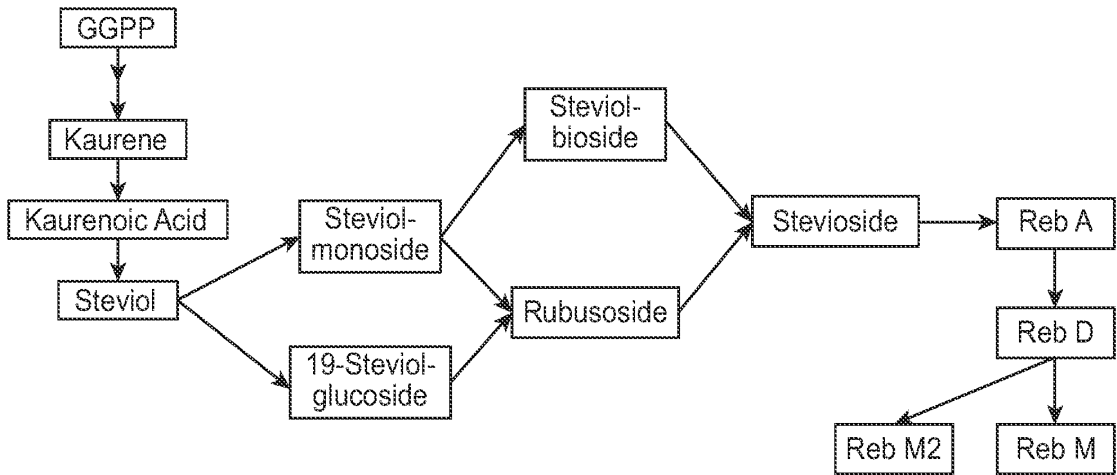


FIG. 2C

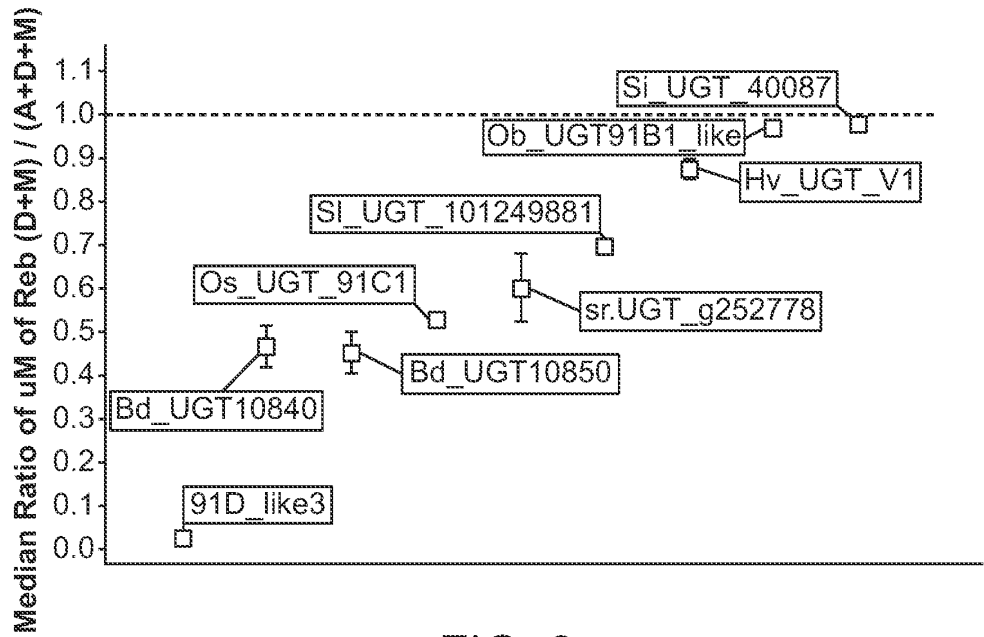


FIG. 3

Down Stream ALG1 ORF	PGAL1	F-Cph1 cut sequence	terminator	Down Stream ALG1 ORF
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FIG. 4

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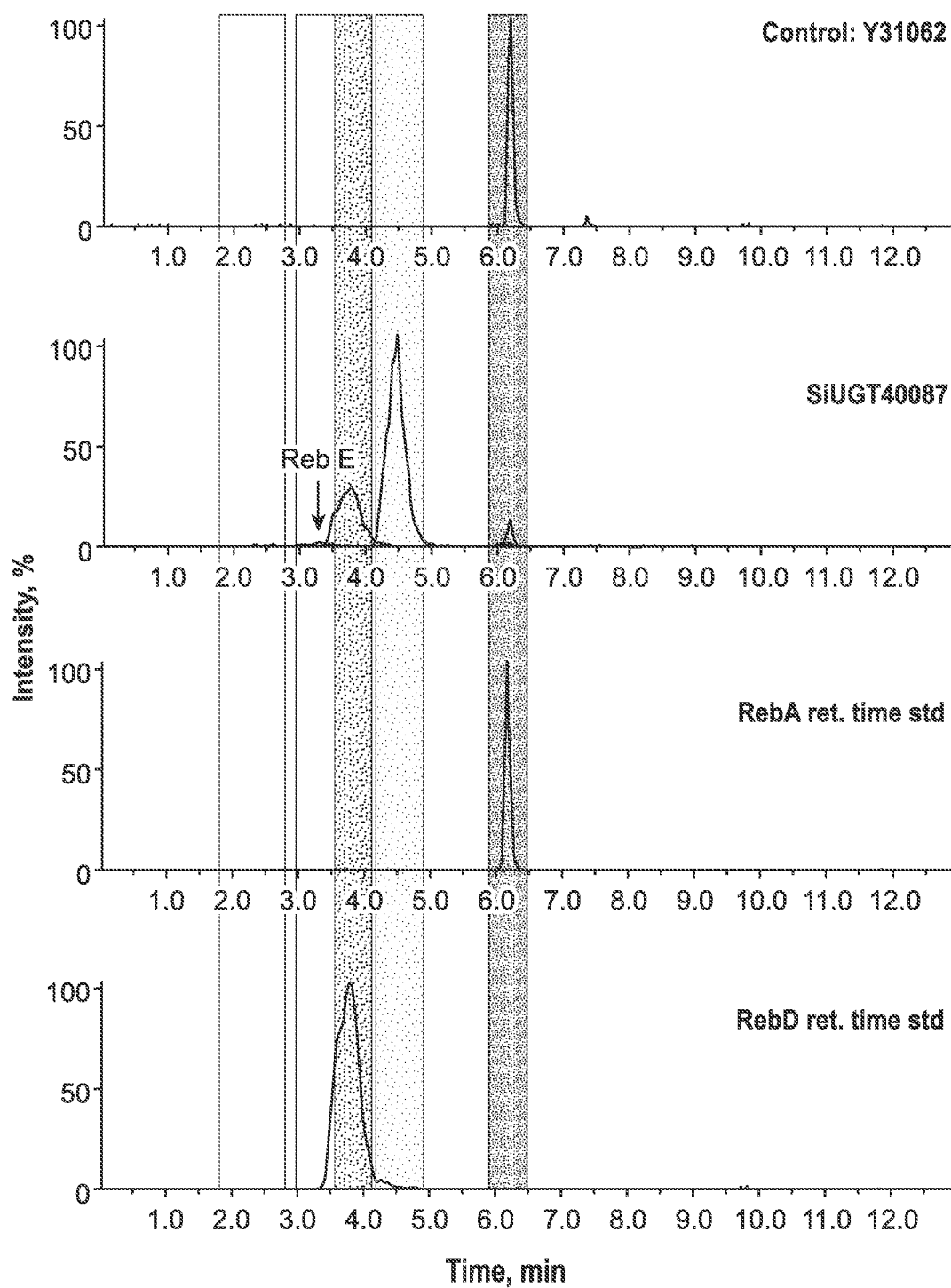


FIG. 5A

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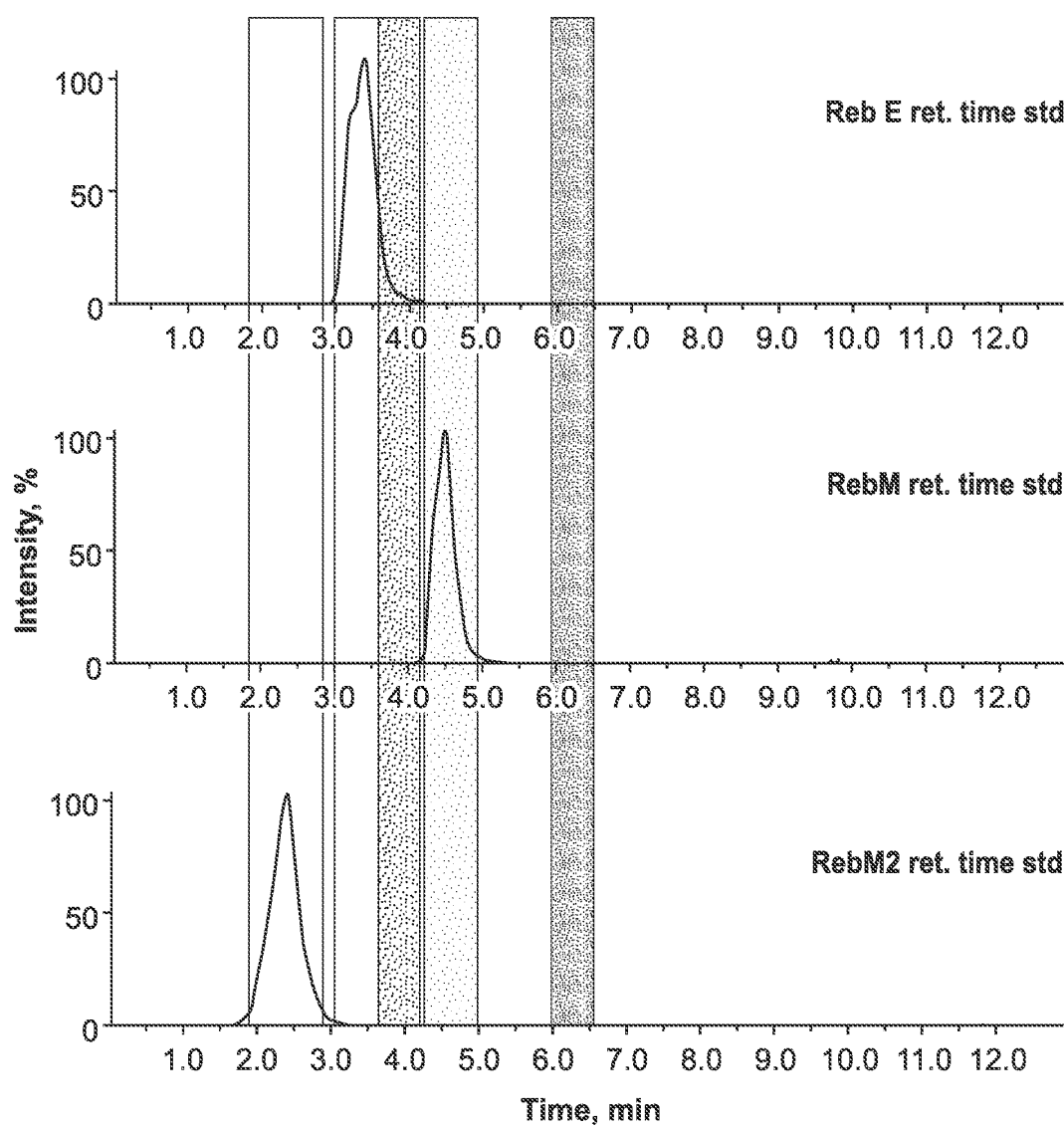


FIG. 5A (Cont.)

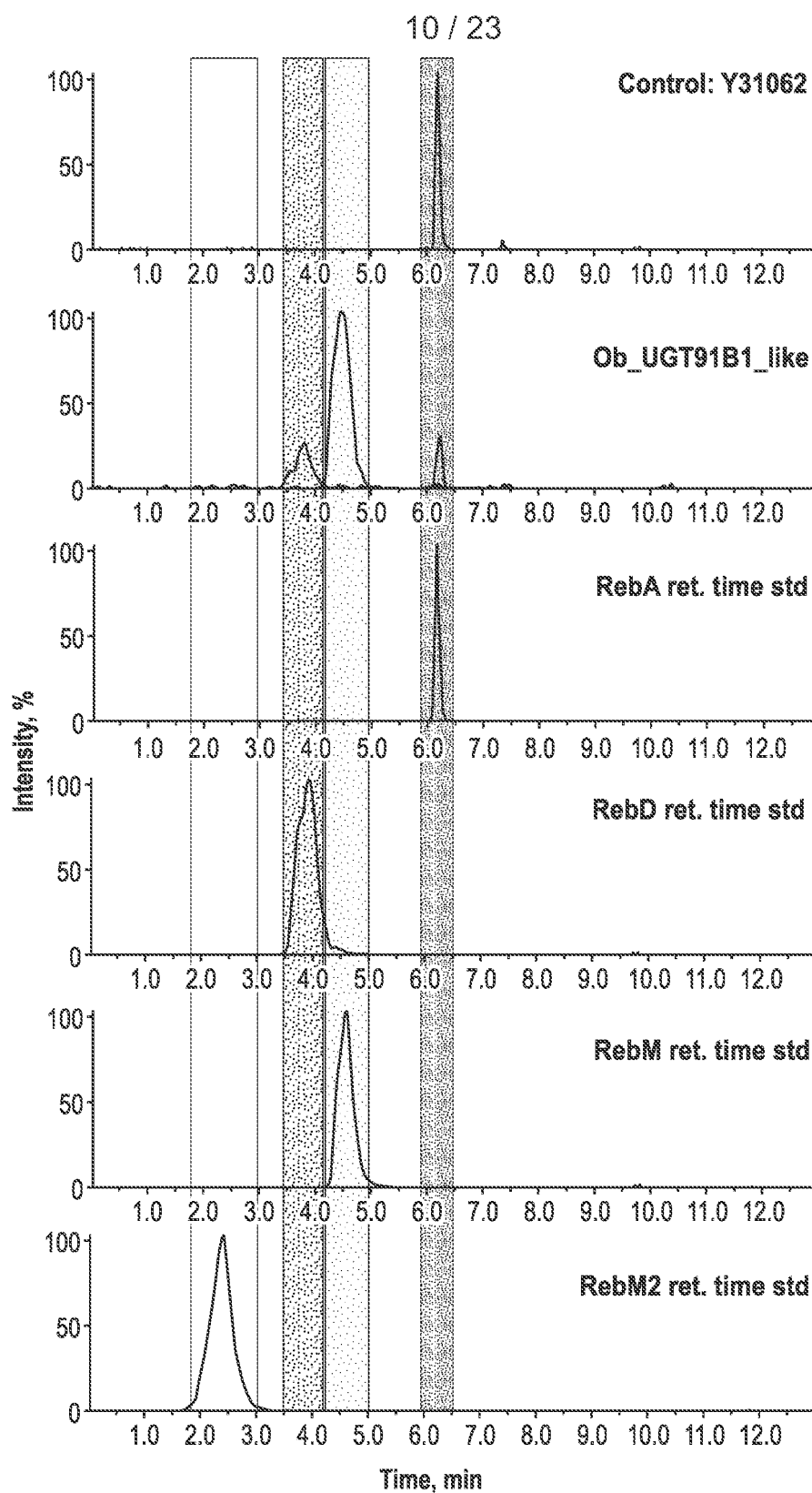


FIG. 5B

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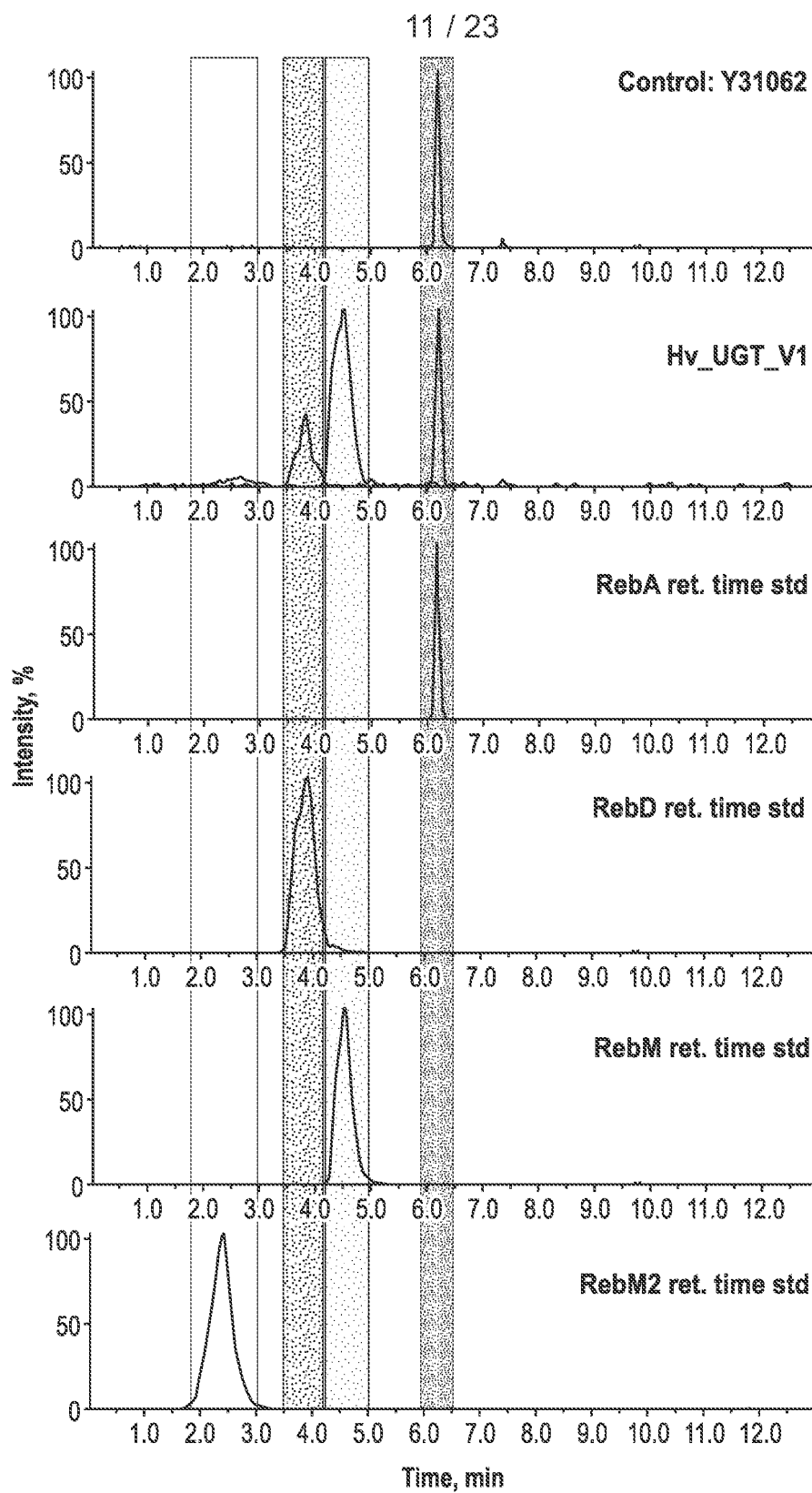


FIG. 5C

SUBSTITUTE SHEET (RULE 26)

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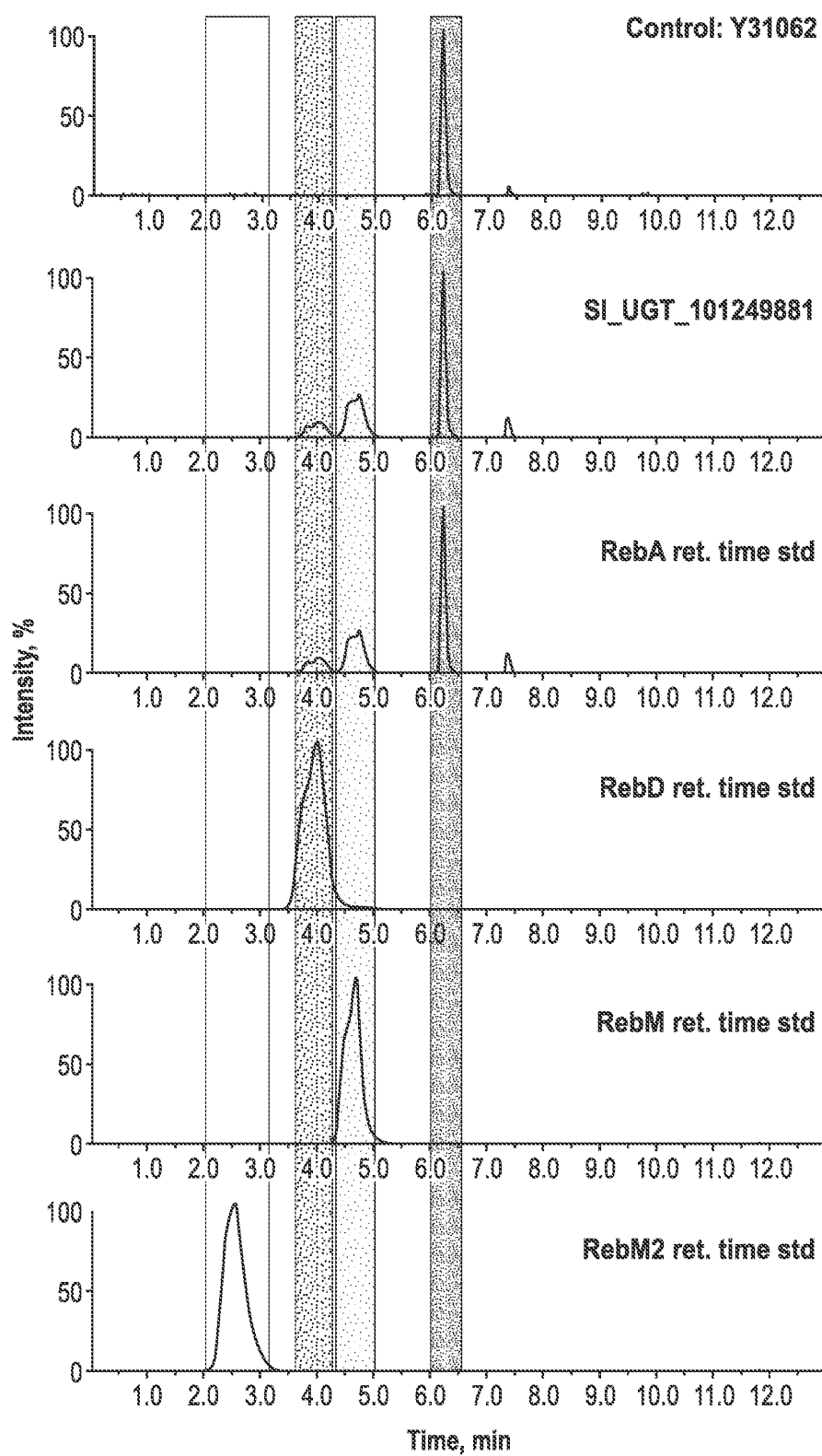


FIG. 5D

SUBSTITUTE SHEET (RULE 26)

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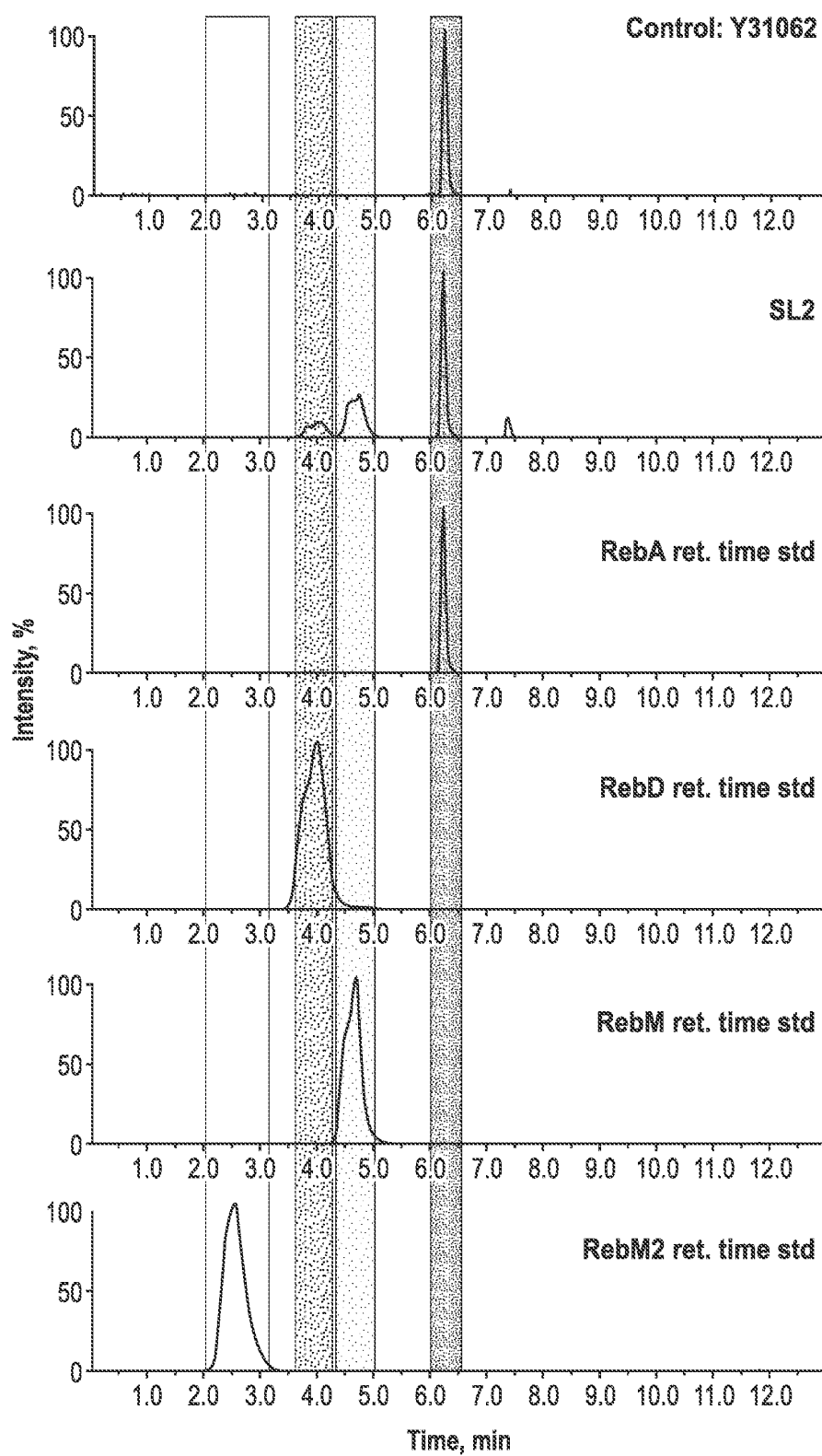


FIG. 5D (Cont.)

SUBSTITUTE SHEET (RULE 26)

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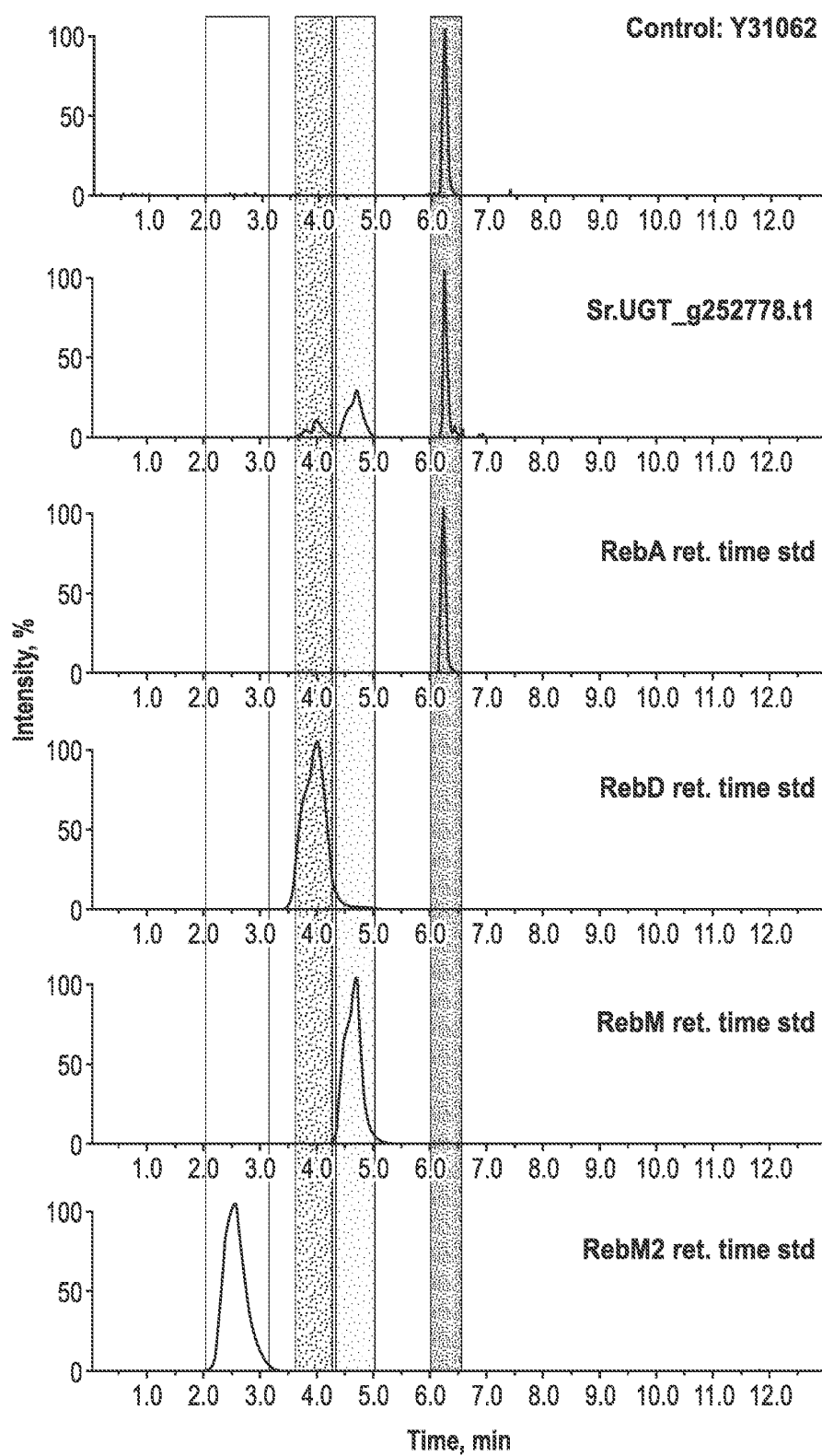


FIG. 5E

SUBSTITUTE SHEET (RULE 26)

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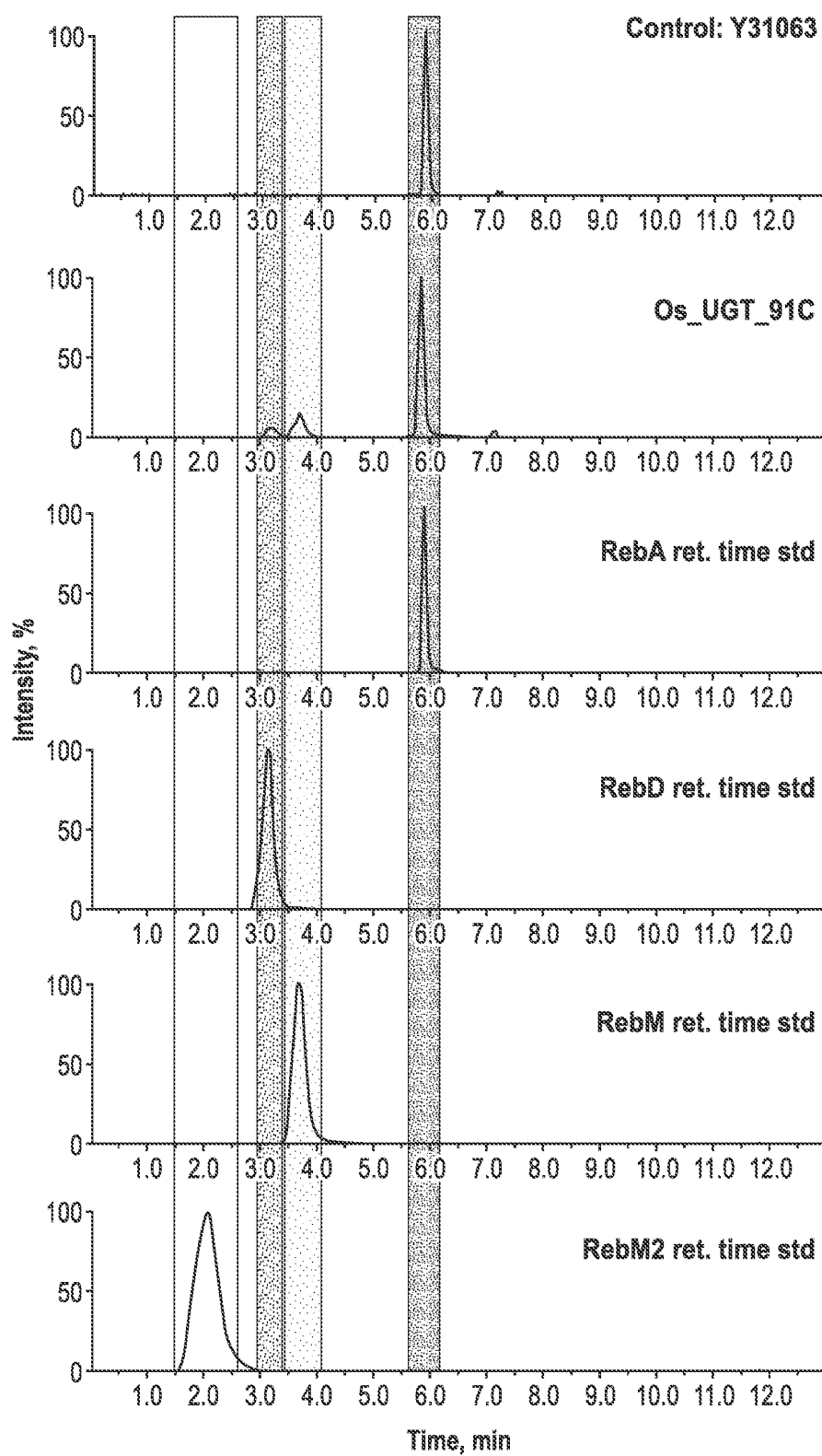


FIG. 5F

SUBSTITUTE SHEET (RULE 26)

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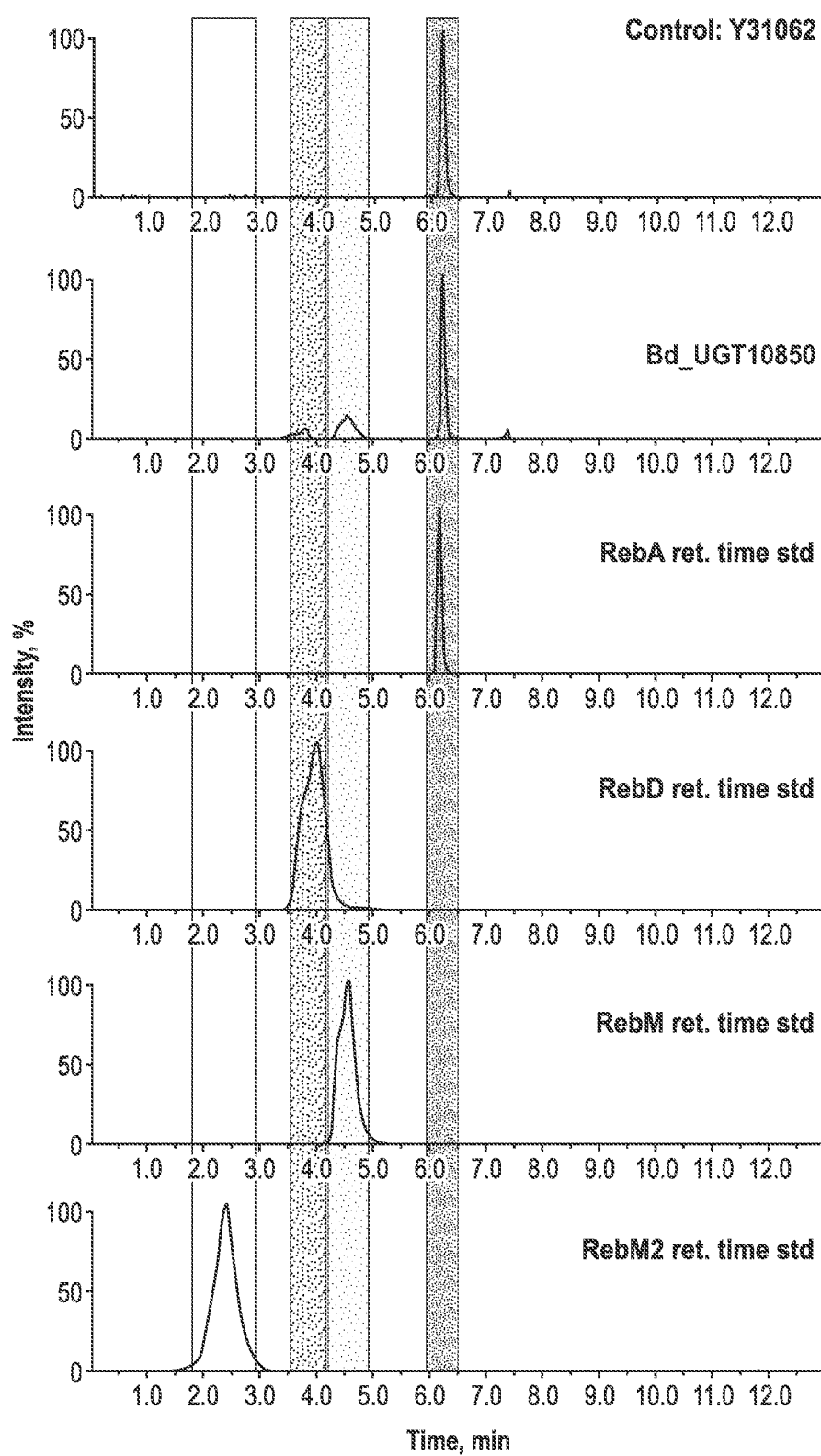


FIG. 5G

SUBSTITUTE SHEET (RULE 26)

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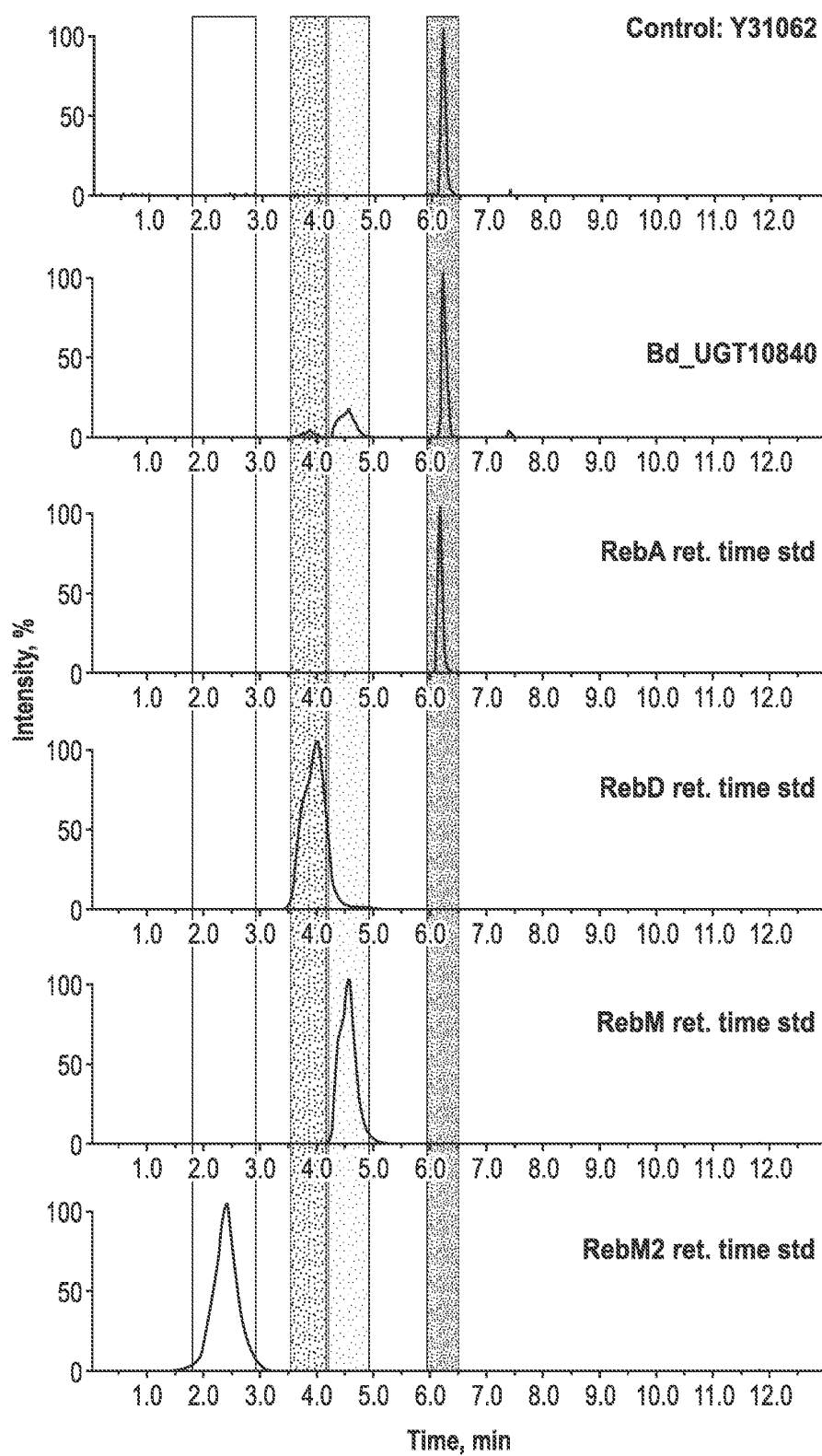


FIG. 5H

SUBSTITUTE SHEET (RULE 26)

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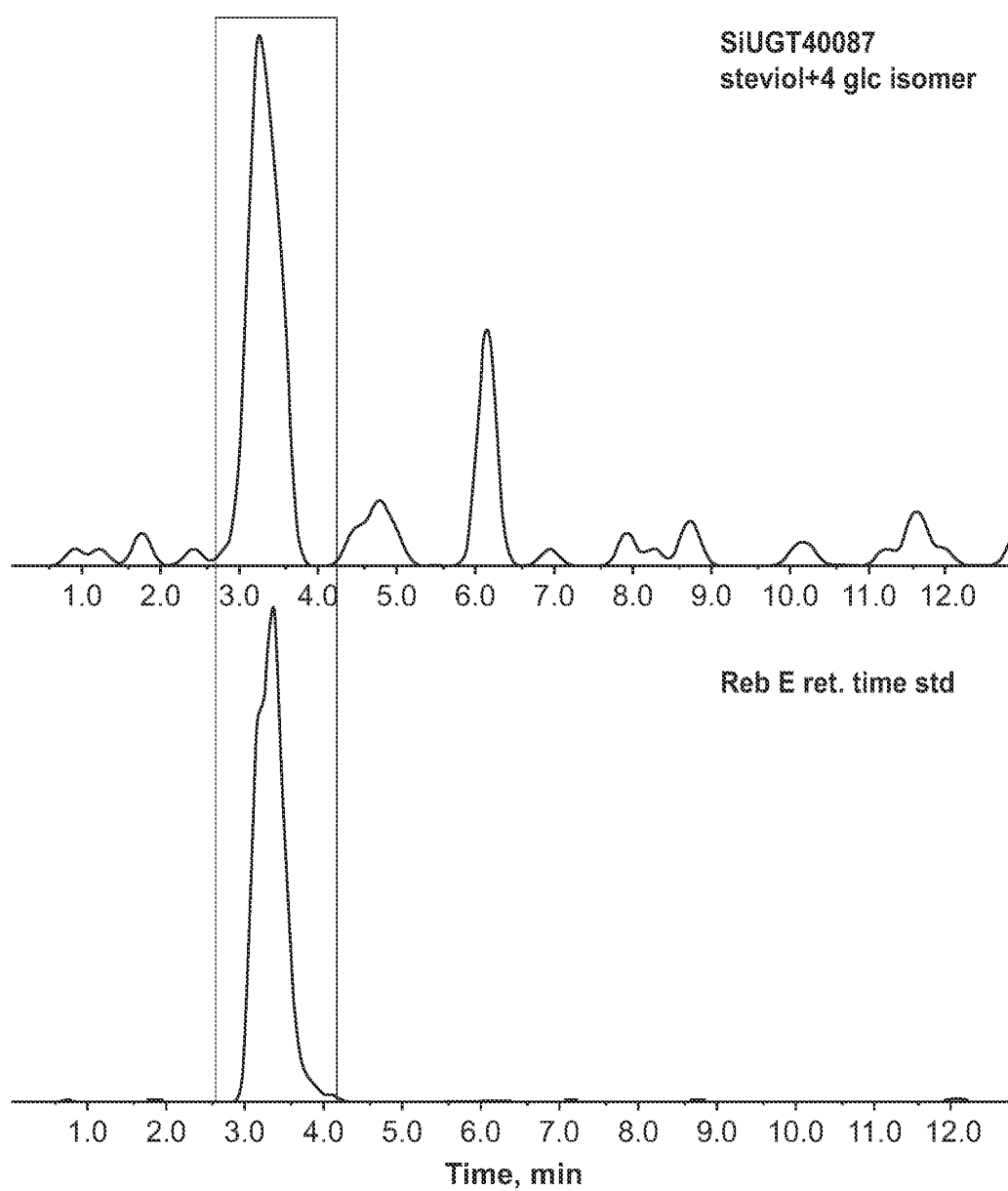


FIG. 5I

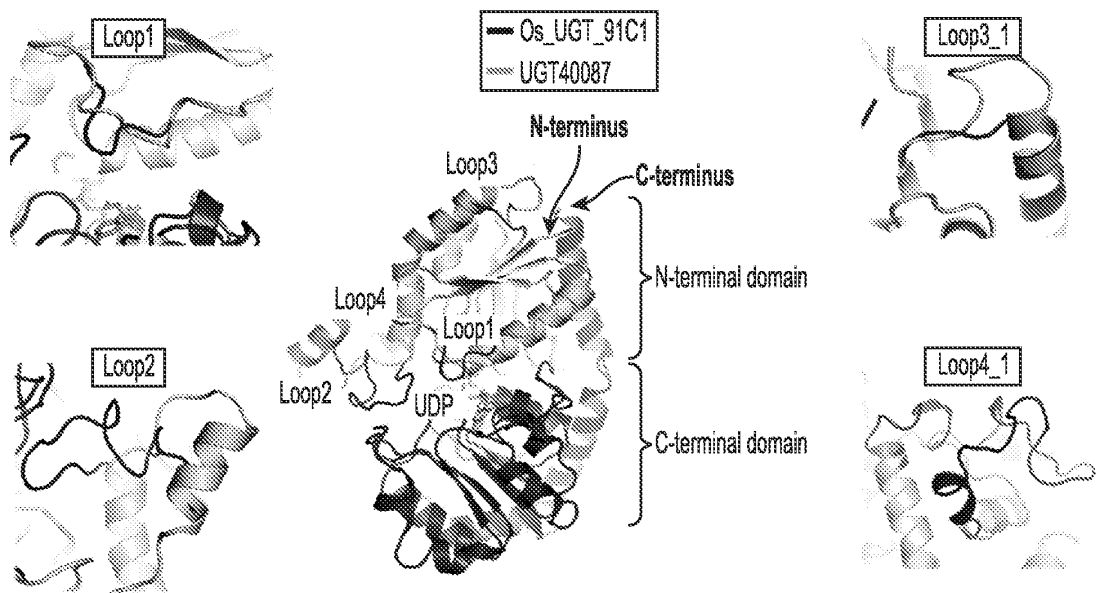


FIG. 6

UGT40087	IPYG ₂₁₄	215LVPP	UGT40087
Si91Dlike	IQYG ₂₁₅	216LVPP	Si91Dlike
Os_UGT_91C1	TFLG ₂₄₆	247LMPP	Os_UGT_91C1
91Dlike3	VPVG ₂₆₀	261LLPP	91Dlike3
UGT40087	IPYG ₂₁₄	216LVPP	Si91Dlike
UGT40087	IPYG ₂₁₄	247LMPP	Os_UGT_91C1
UGT40087	IPYG ₂₁₄	261LLPP	91Dlike3

FIG. 7

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	1	10	20	30	40
UGT40087	MDASSSPL	IVIF	WLA	SM	AS
Os UGT 91C1	MDSGYSSSYAAAA	GM	IVVIC	WLA	GI
91Dlike3	MYNVTYHQNSKAMATSDSIVDDRKQ	LVATF	WLA	GI	IPY
Si91Dlike	MDSSQSPL	IAVF	WLA	GI	LPN
	50	60	70	80	90
UGT40087	P N S	RPVPPALA	IDF A P	PRDCI	DG A S
Os UGT 91C1	P N S	RPVPPALA	IDF A P	PRDCI	DG A S
91Dlike3	T N C	SS...HIS	INV Q T	PRQE	ED A T
Si91Dlike	T I S	RPVPLALA	IDF A P	PRDG	DG A S
	100	110	120	130	140
UGT40087	AAPFAA	DAACADGSTNKV	LEF	NEQY	AAAA
Os UGT 91C1	AAPFSE	GTACA.....	VIV	VEFH	AAAA
91Dlike3	OPEVTR	ECHSE.....	IIY	YTHY	LPST
Si91Dlike	AAPFAA	DAACADGSTNKV	LEV	SFOY	AAAA
	150	160	170	180	190
UGT40087	ADHKIPC	LNITFAASTS	EYGV	P	
Os UGT 91C1	MLLGS	SAHMI	SIADR		
91Dlike3	HE	SVTTPWAI	YMGPS		
Si91Dlike	LILPFASSTL	EFGVP			
	200	210	220	230	240
UGT40087	V	ILEKCOFVIQ	RACF	LEPEHL	SDIFGK
Os UGT 91C1	S	TLRSRSSLVGR	SCV	FEPETV	STLRGK
91Dlike3	G	VLKGS	DCILSKCYH	FGTOWL	ETLHQV
Si91Dlike	V	TFEKC	OLVIHRACS	LEPEHL	PGIFGK
	250	260	270	280	290
UGT40087	LKQOPE	LFI	LS	PPVTVEQLH	IA
Os UGT 91C1	LDAQPAK	VYV	LS	VPLGVEKVH	IA
91Dlike3	LQKQK	VYV	LS	VLVSQTEVV	IA
Si91Dlike	LKQOPE	LFI	LS	PPVTVEQLH	IA
	300	310	320	330	340
UGT40087	G E	D	L	AMG	V
Os UGT 91C1	G E	G	V	ATF	V
91Dlike3	G V	D	L	WTS	A
Si91Dlike	G E	D	L	AMG	V
	350	360	370	380	390
UGT40087	IN	Q	I	R	KA
Os UGT 91C1	PN	R	I	A	NA
91Dlike3	LN	R	L	D	QV
Si91Dlike	IN	Q	I	R	KA
	400	410	420	430	440
UGT40087	SYDROGI	GAI	A	MC	E
Os UGT 91C1	SFDREGV	AAI	A	AM	E
91Dlike3	CLTKESV	RS	L	S	VV
Si91Dlike	SYDROGI	GAI	A	MC	E
	450	460	470	480	490
UGT40087	NCOEK	IDELIQR	GSEK		
Os UGT 91C1	ACHER	IDGFICQ	RSYKD		
91Dlike3	KVEKE	VSQFVDY	EKNARA	VAIDHES	
Si91Dlike	KCOER	IDELIQR	RSEK		

FIG. 8

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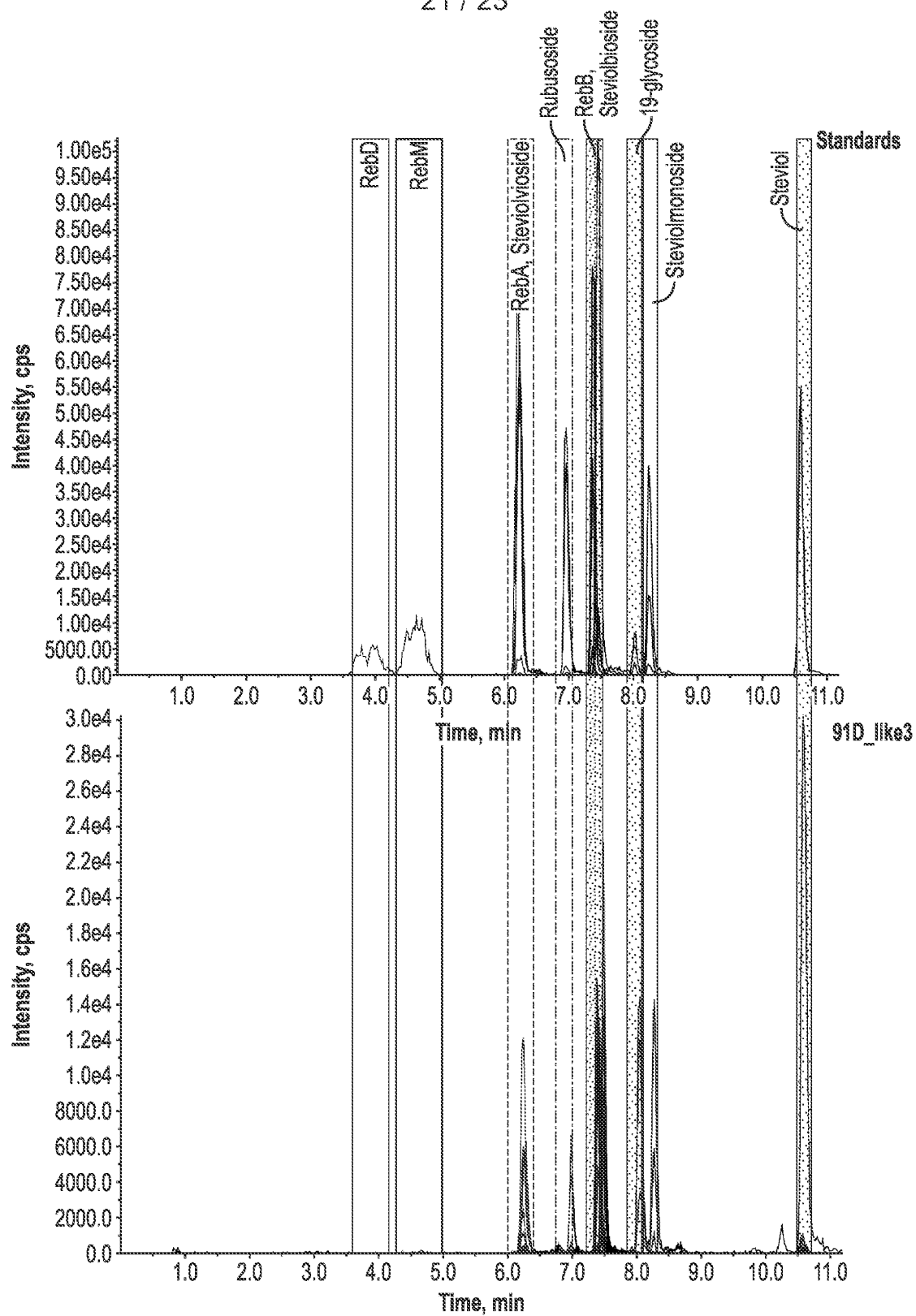


FIG. 9A

SUBSTITUTE SHEET (RULE 26)

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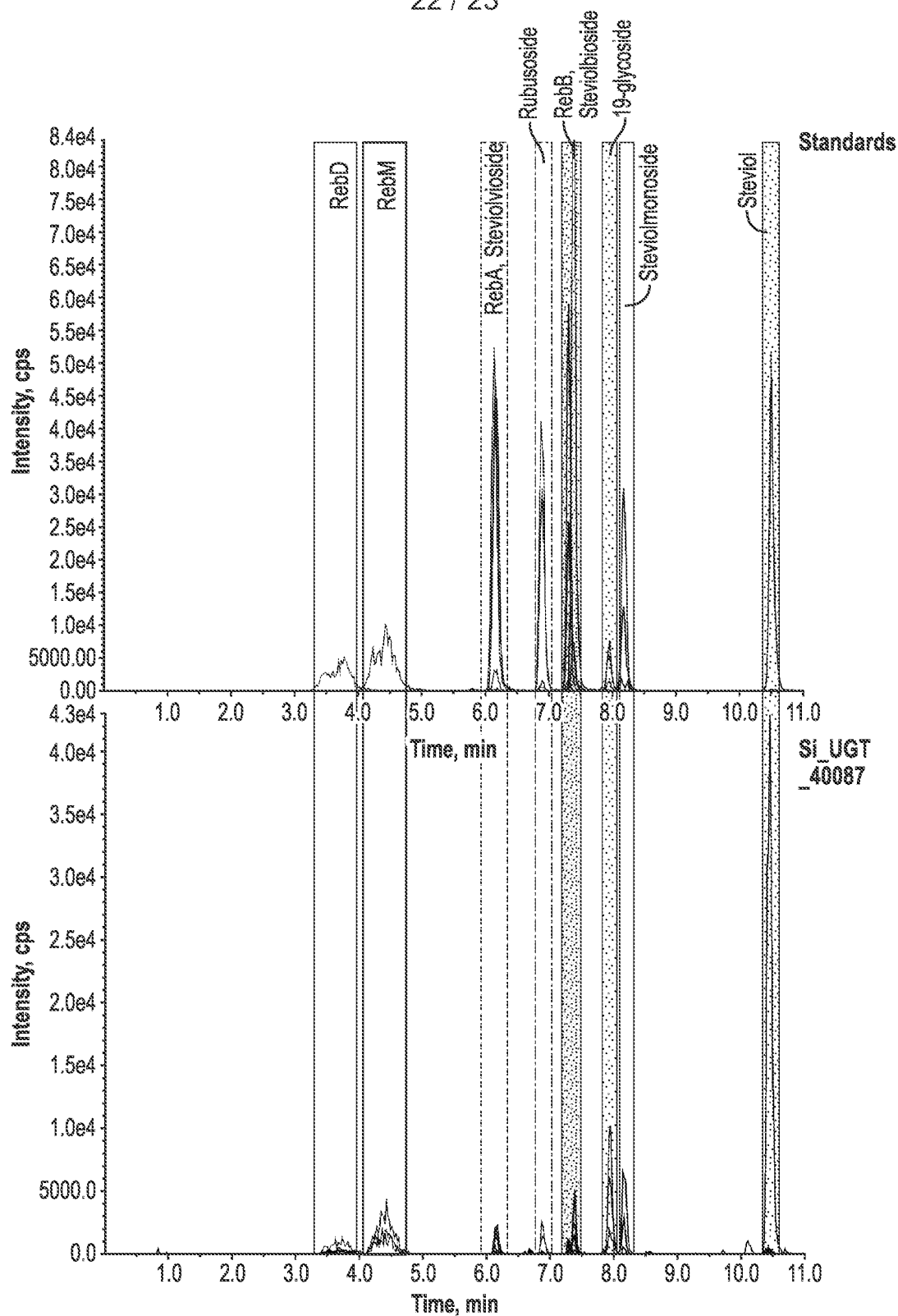


FIG. 9B

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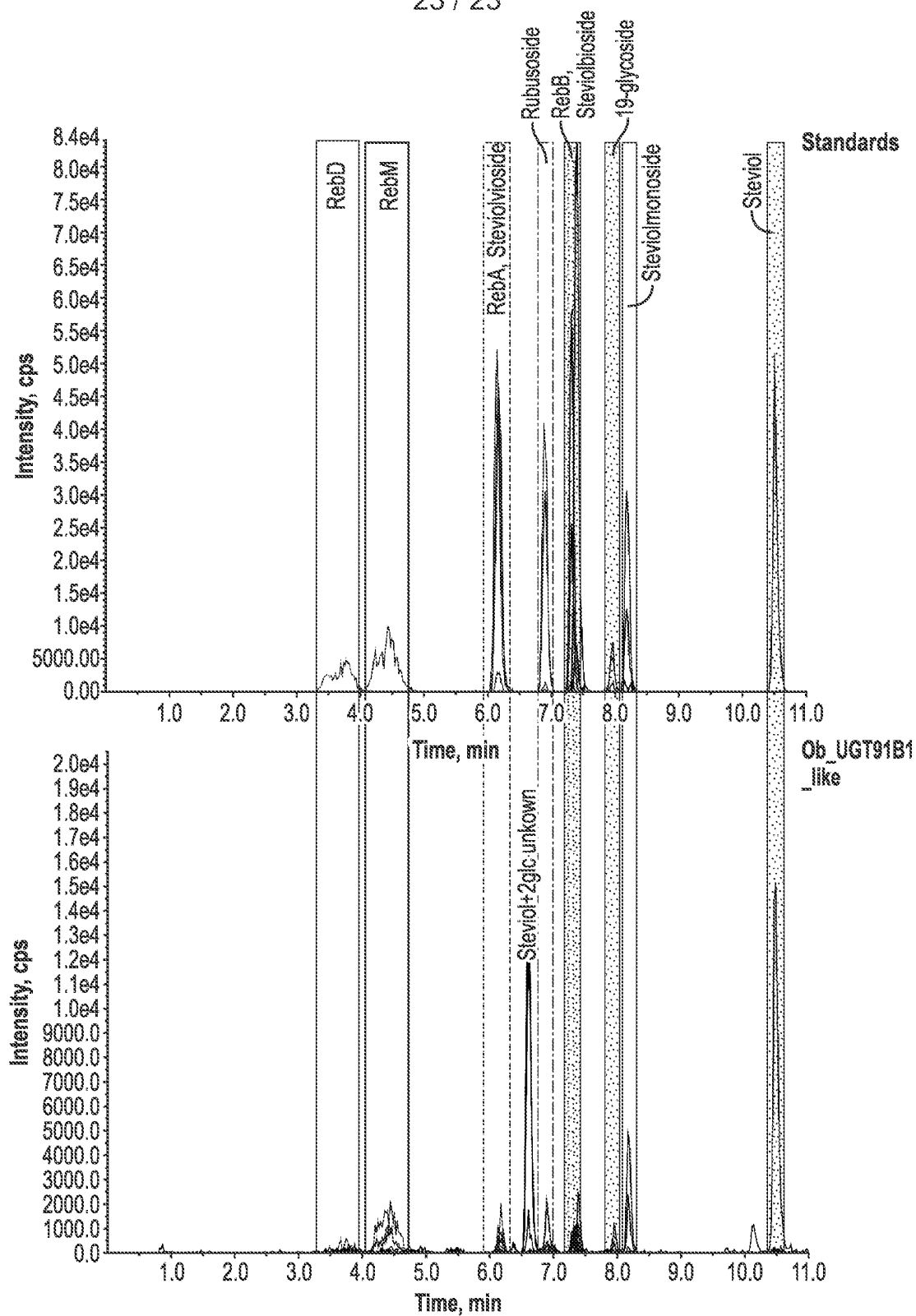


FIG. 9C