

Supplementary File: Full Uncropped Agarose Gel Images Used for MIRU-VNTR Typing

Please find attached all available original heat-printed agarose gel images generated by the UV transilluminator during the MIRU-VNTR typing experiments.

These printed gel images represent the complete set of gel records used in this study. During the experimental work, MIRU-VNTR allele assignment was performed directly from the UV transilluminator display, which provided substantially higher resolution/bigger images and allowed more accurate comparison of each PCR product with the DNA size marker (Ladder) than the printed images alone. The heat-printed gel records were retained as laboratory documentation and were used mainly to verify and correct allele assignments when needed.

The image quality of the printed gels reflects the original documentation produced by the UV transilluminator at the time of the experiments. Consequently, some bands may appear less distinct than they were during direct visualization on the instrument screen.

The complete MIRU-VNTR allele scoring spreadsheet, which contains the allele calls derived from these gels and was used for all subsequent analyses, has been provided as supplementary material with the manuscript.

The following pages include the complete set of available agarose gel records used in this study, organized into **14 sets of 8 isolates**.

We hope these supplementary materials will assist in the evaluation of our manuscript.

Dr. Ayoub Ez-Zari

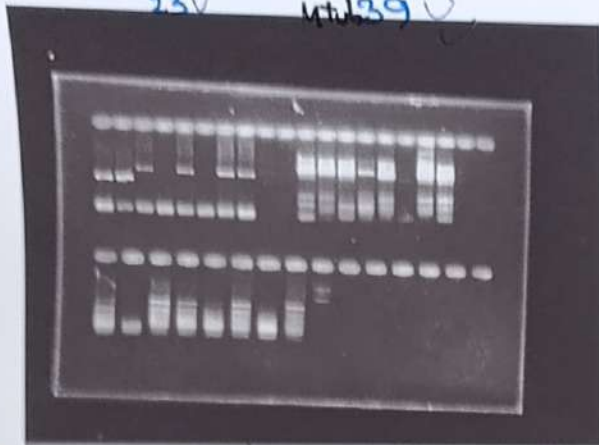


Representative image of the UV transilluminator display used for 24-MIRU-VNTR allele assignment. Allele calls were performed directly from the instrument display screen, while the accompanying thermal printouts served as the original laboratory records and are provided in the following pages.

Set 1

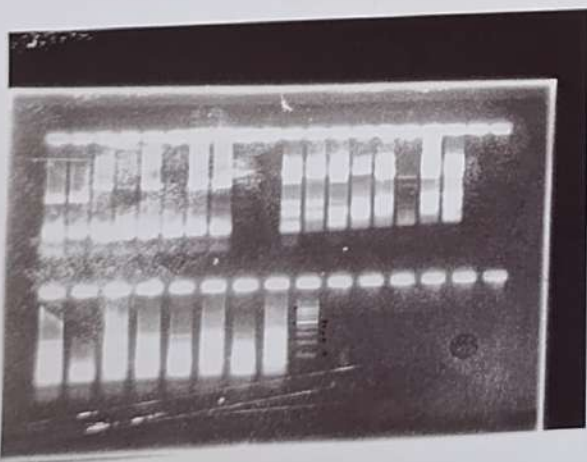
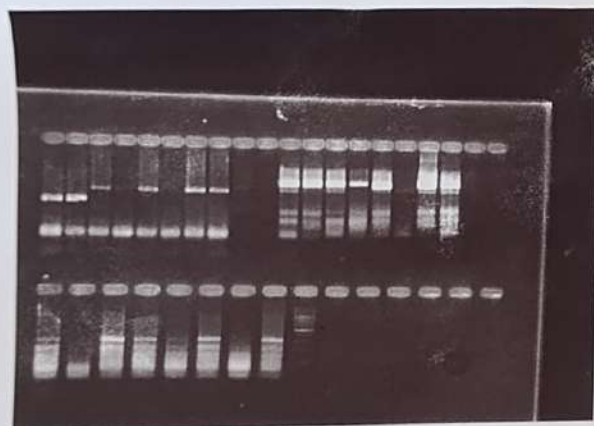
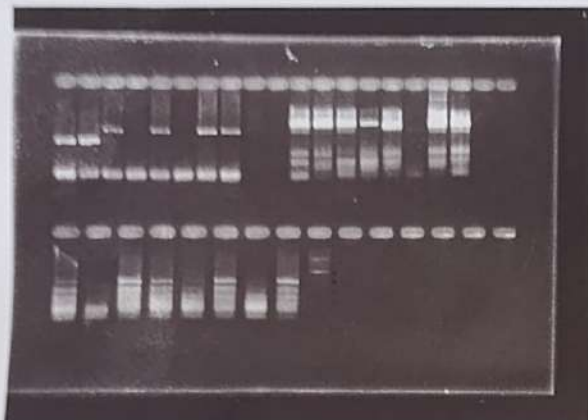
23V

139V



Set 2

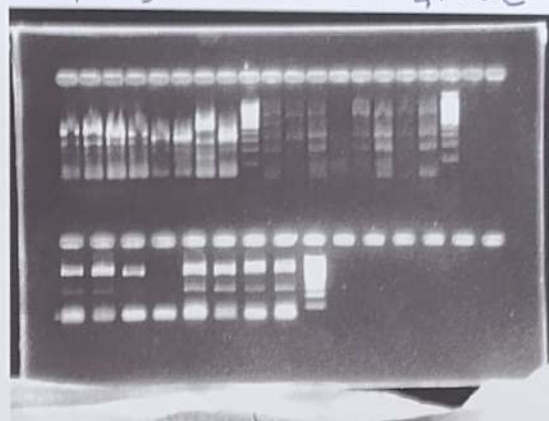
4V



Set 1

M₃₉ V

4156C

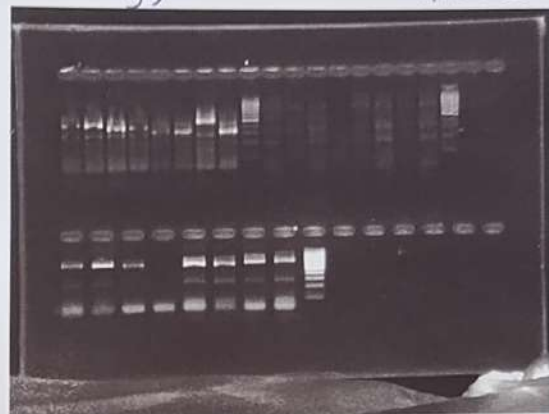


16V

Set 1

39

4156C



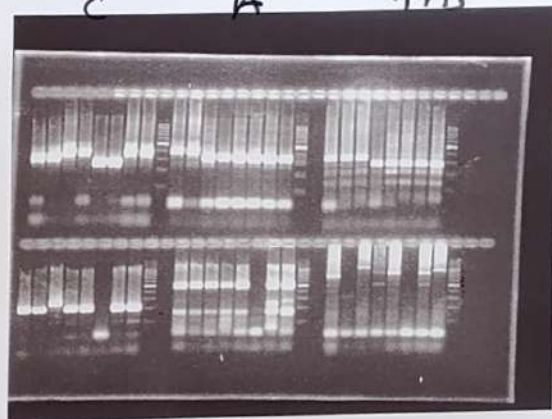
18V

Set 1

C

A

17b



21

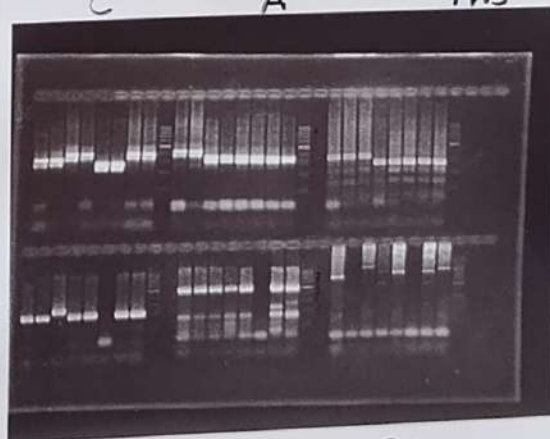
2

Q26

C

A

11b



21

2

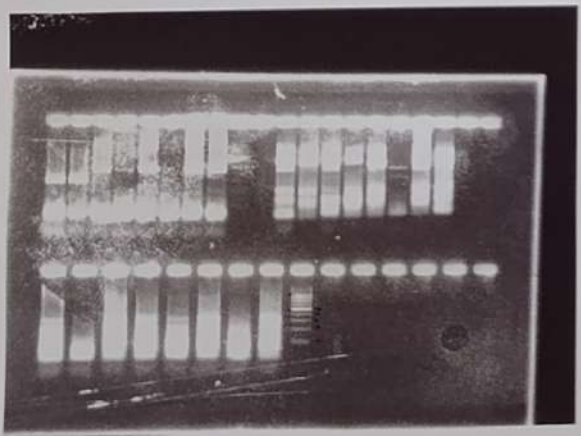
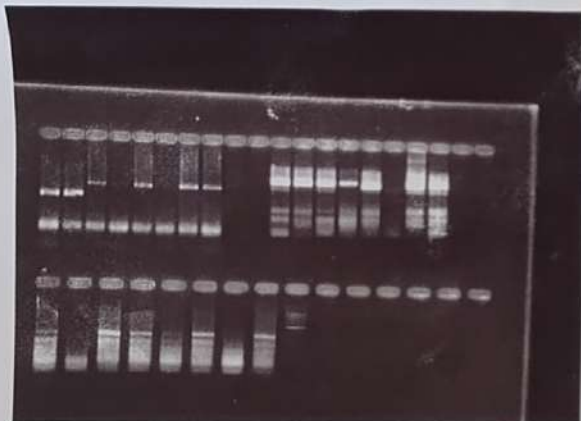
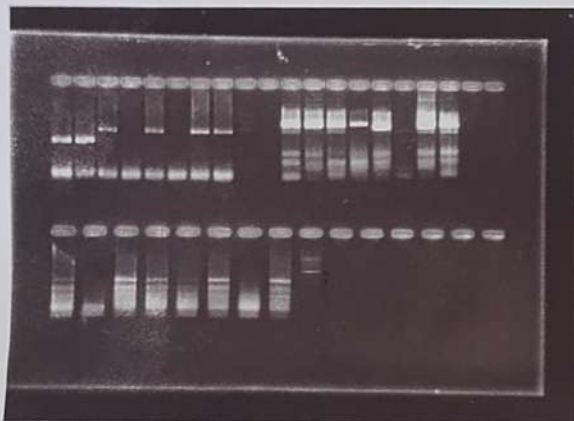
Q26

Set 1

23V 10039 V



Set 2 4 V



Set 1
M39 V

4156C



16 V

Set 1

39

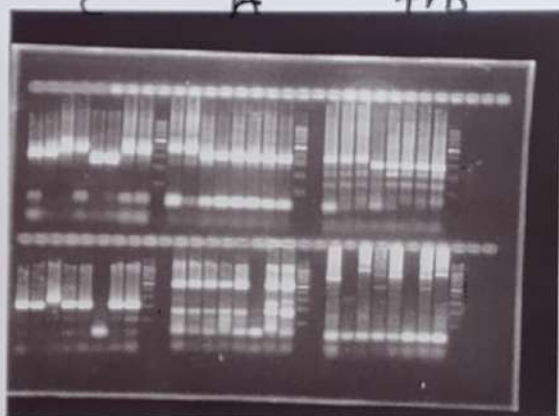
4156C



18 V

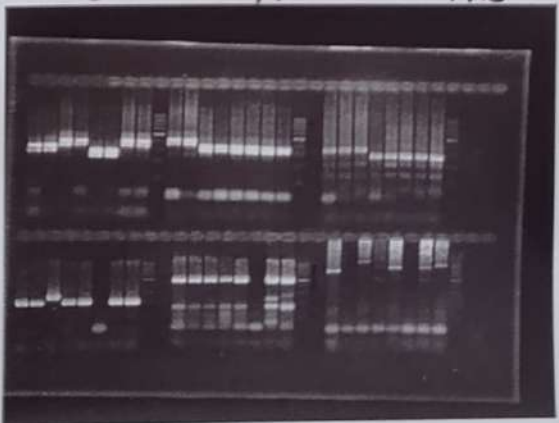
Set 1

C A 11b



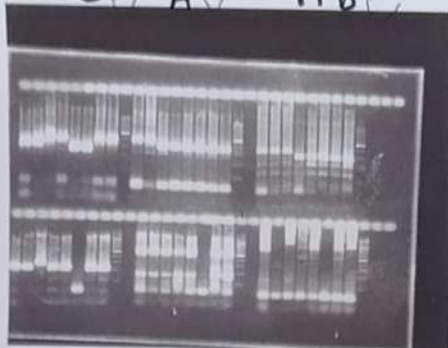
21 2 026

C A 11b



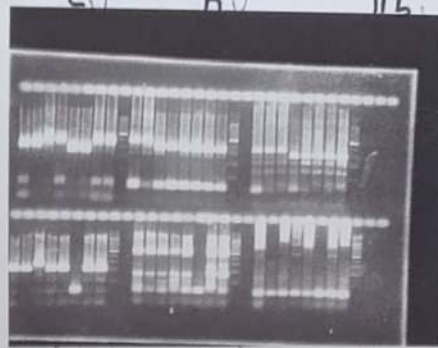
21 2 026

Set 1



21V 2V 21V

Set 1

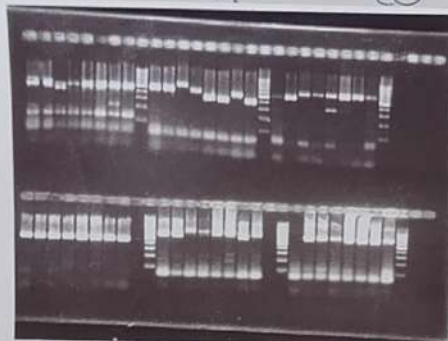


21V 2V 26V

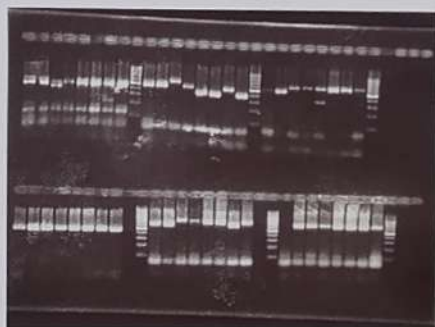
Set 1

40 min

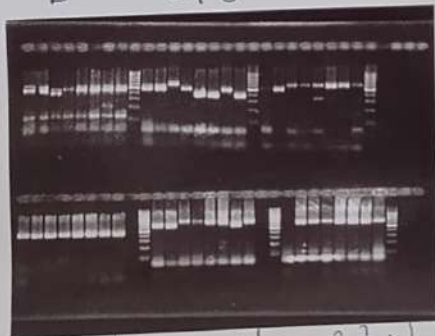
B 34 20



24 M104 27



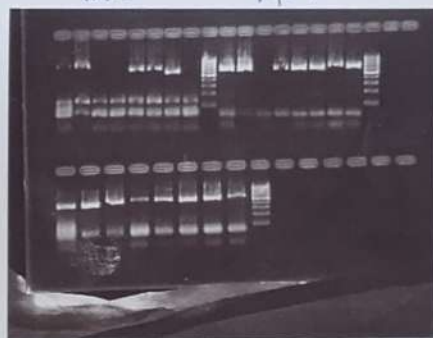
BV 34V 20V



24V 24V 27V

Set 2

100V 131V



M104 29V 10V 31V



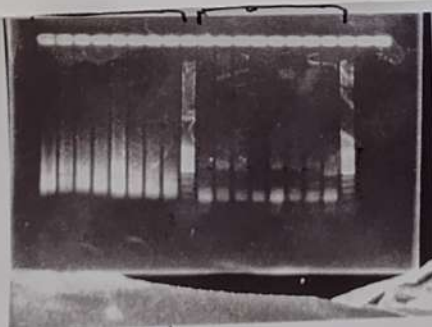
29V



Set 1 40V

Curcubits

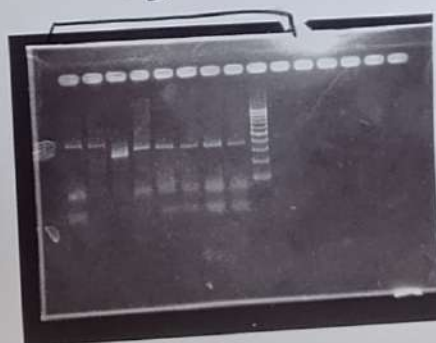
Set 1
4



22V 23V

26

Set 2
30V



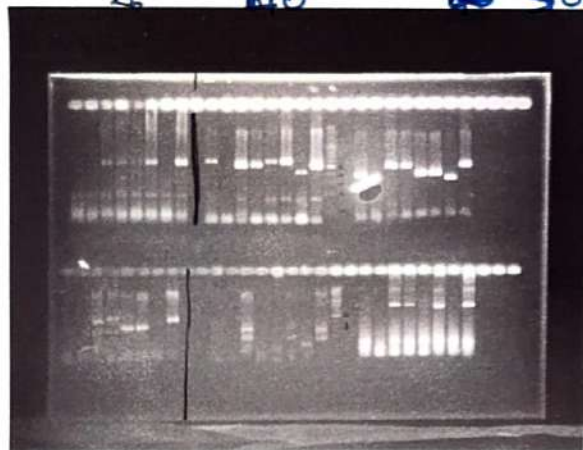
3

-26

R10

30 Mtub

Set
2



Mtub 39

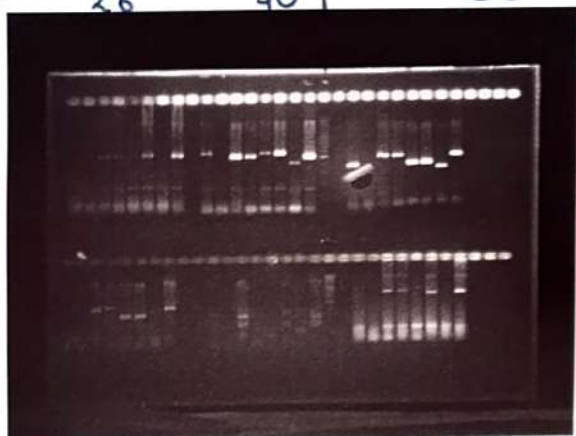
4156c

10

26

40

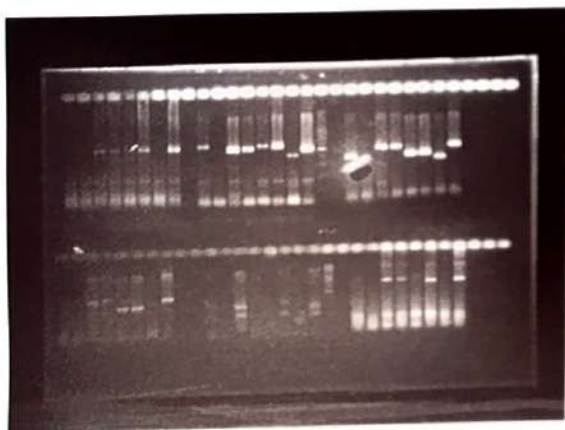
30



39

4156c

30

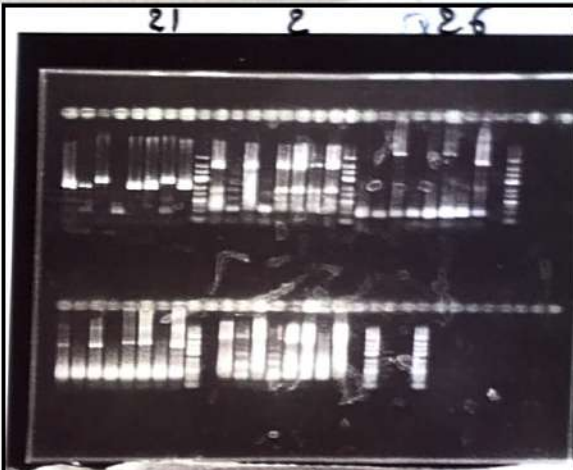


21

2

26

Set
2



23

39

21

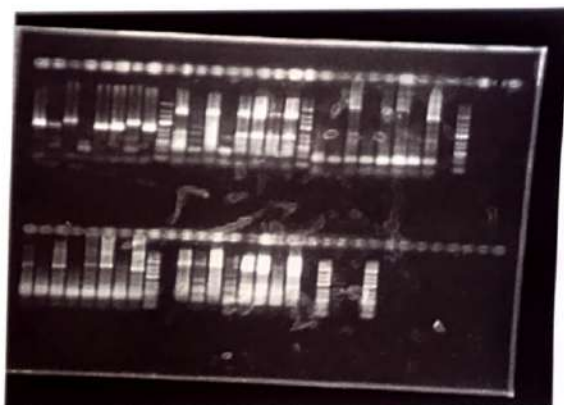
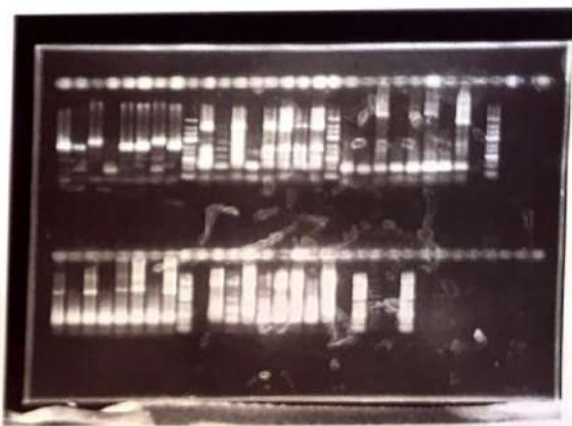
2

26

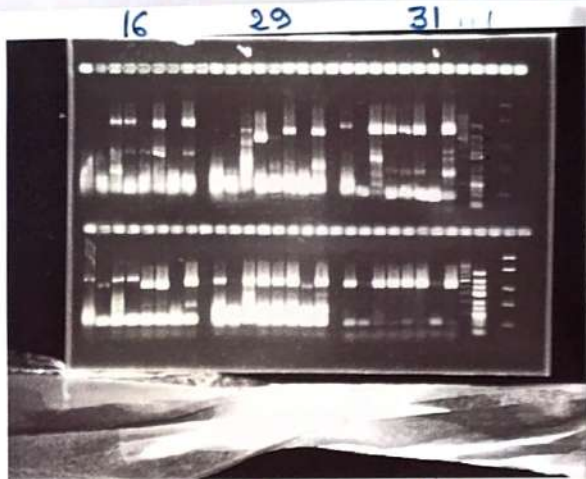


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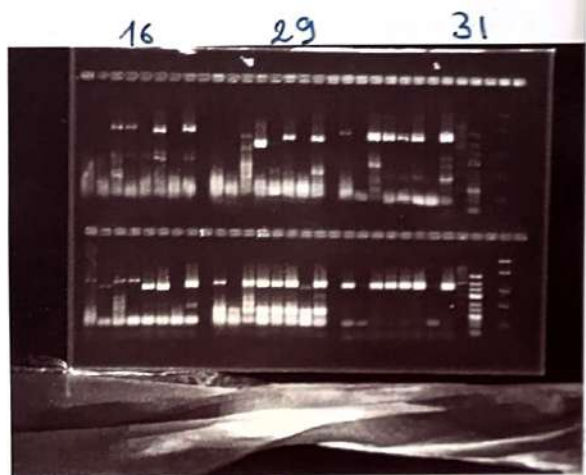
39



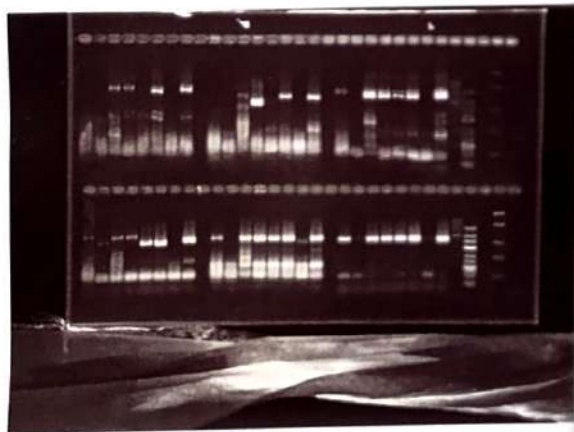
Set 2



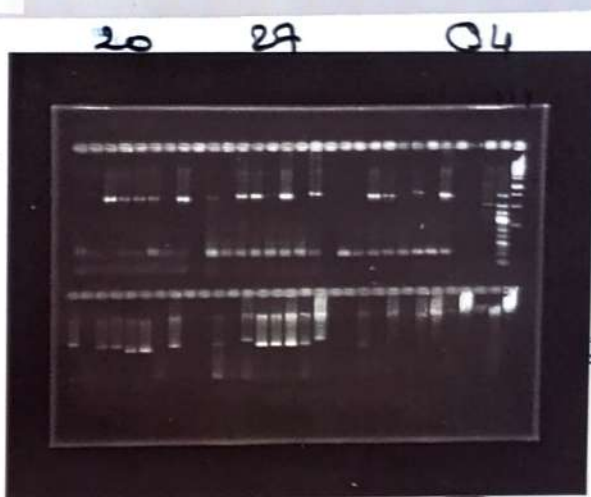
34 B 24



34 B 24

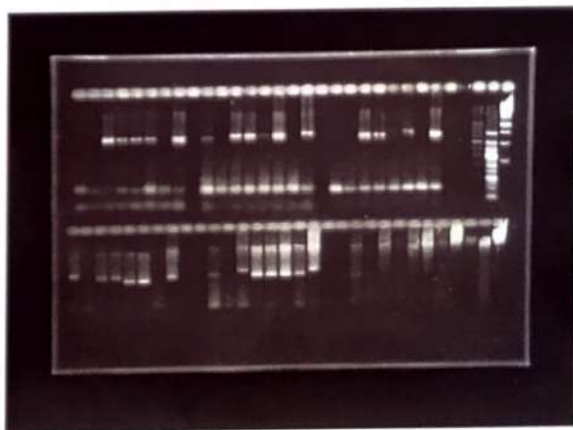
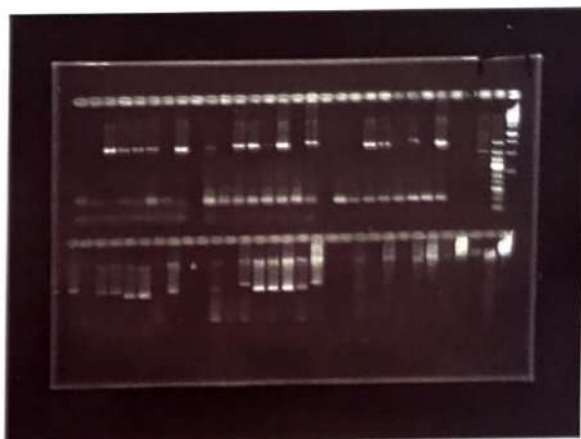


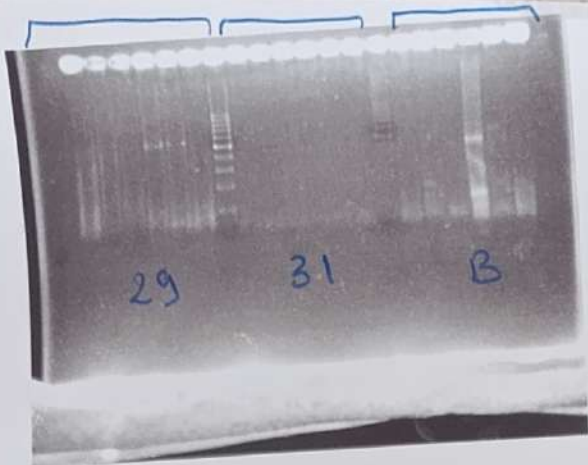
Set 2



~~E~~ A (77b)

100 / 100000
Faint
not

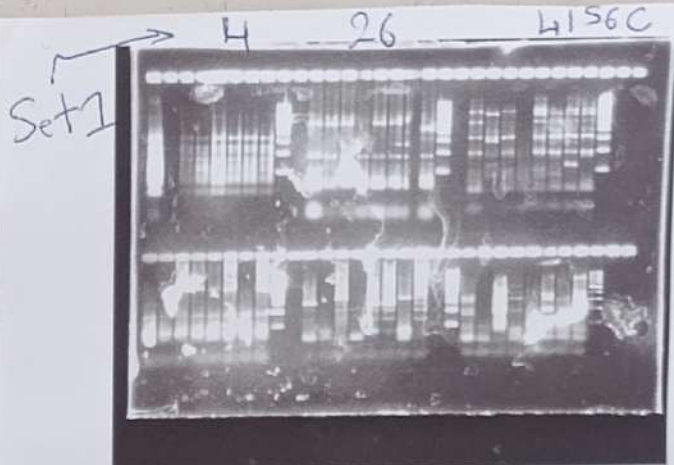




29

31

B



Set 1

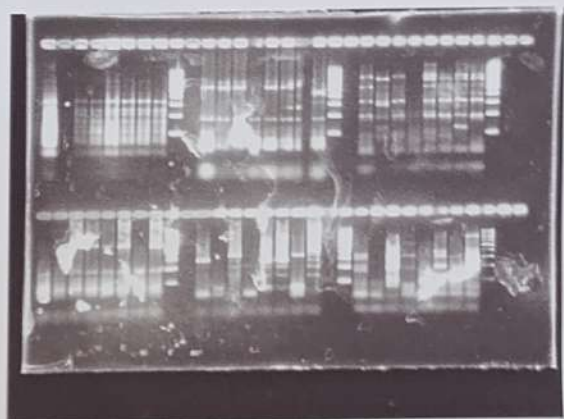
H

26

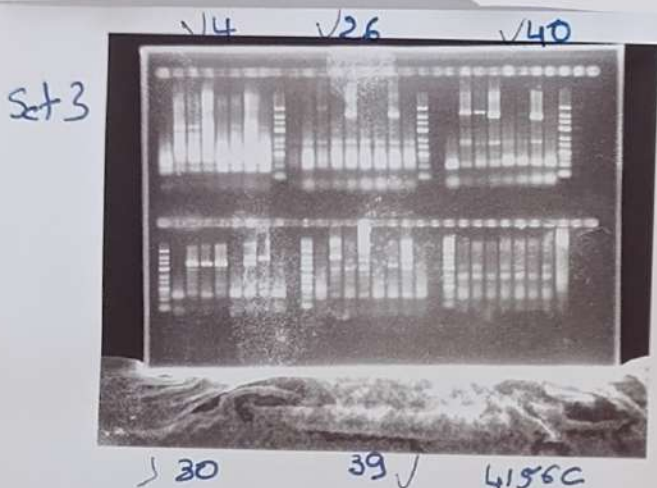
4156C

Correction

Set 2 26 A1b 4156C



Correction



Set 3

14

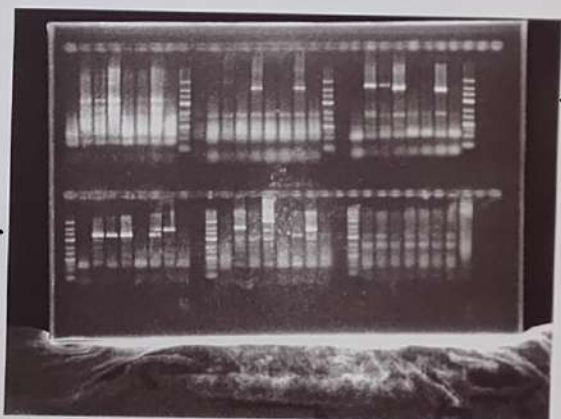
26

40

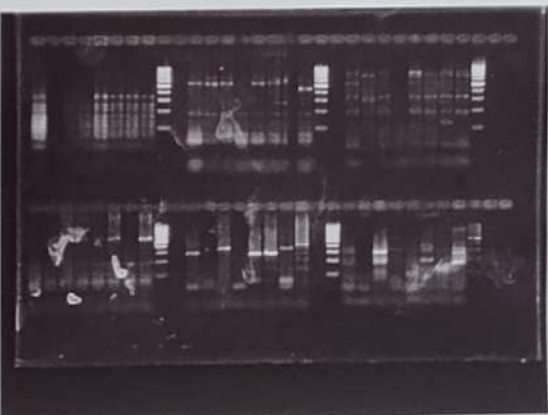
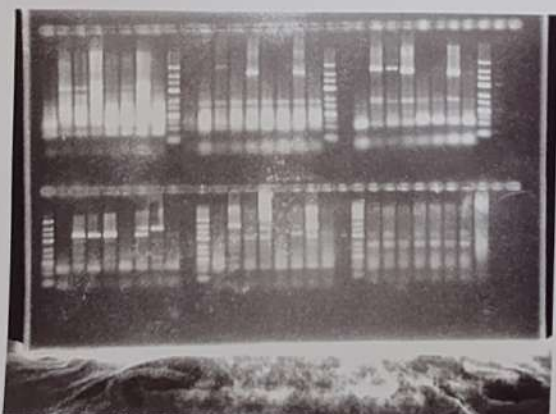
30

39

4156C

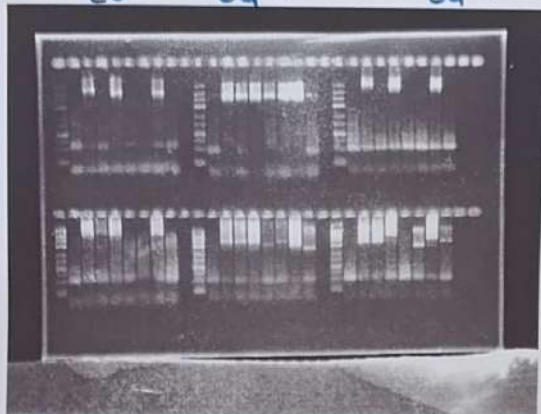


Correction

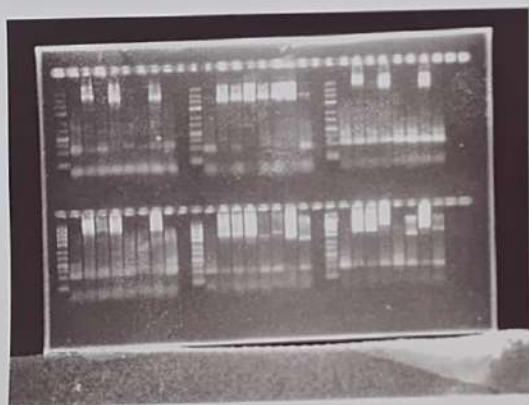
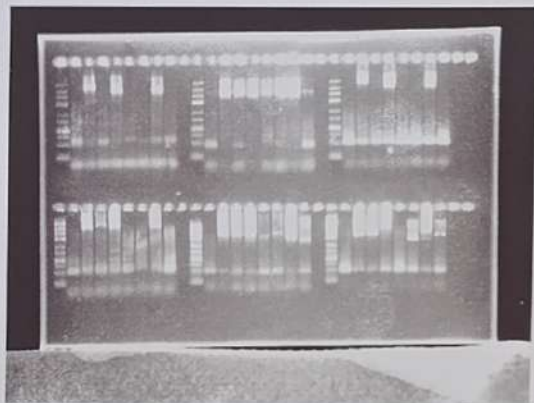


Correction

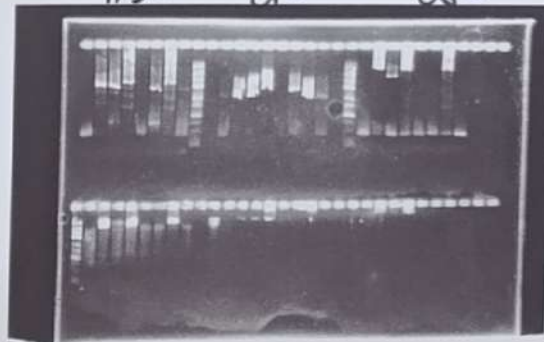
Set
3



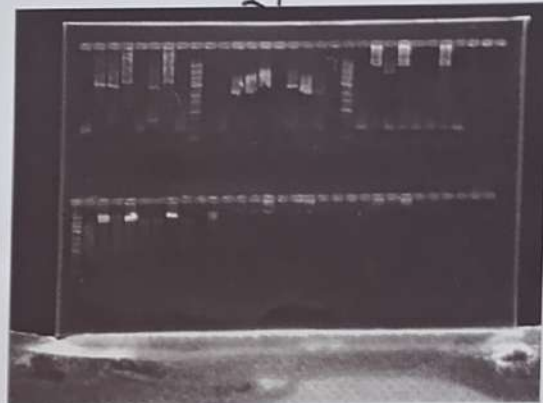
20[✓] 24[✓] 34[✓]
27 CV A[✓]



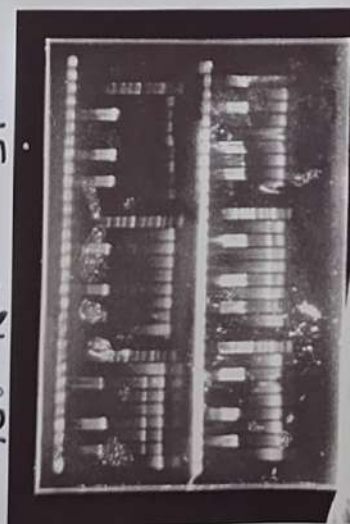
Set
3



116[✓] 21[✓] 26[✓]
20[✓] 39[✓] (23)
21

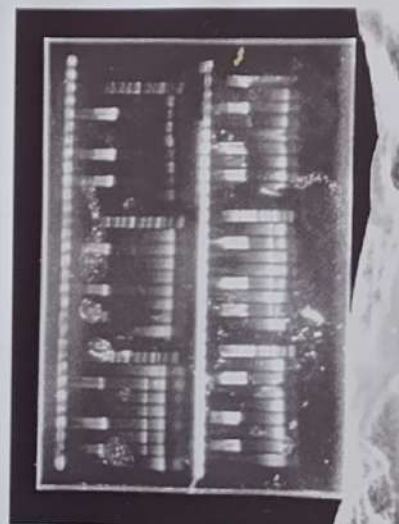
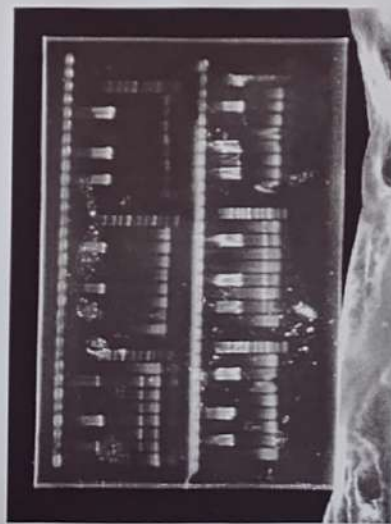


10[✓] 16[✓] 31[✓]

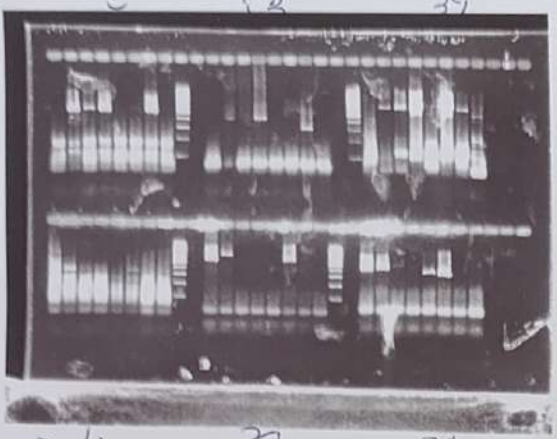


Set
3

29[✓] B[✓] 34[✓]



Set 3



Correction

Set 4 → 4

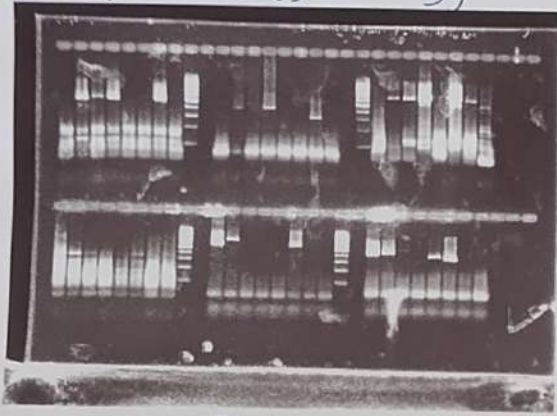
37

34t

Set 3 → 2

23

39

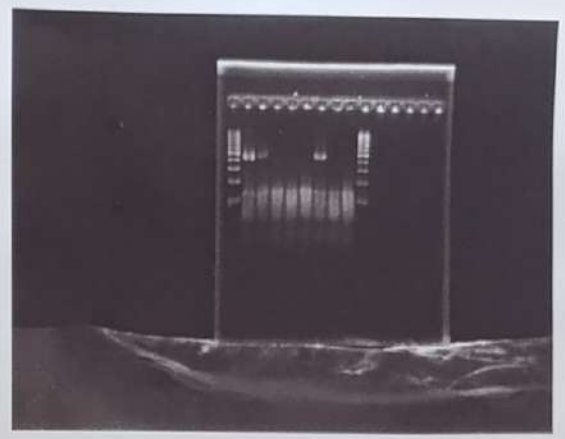
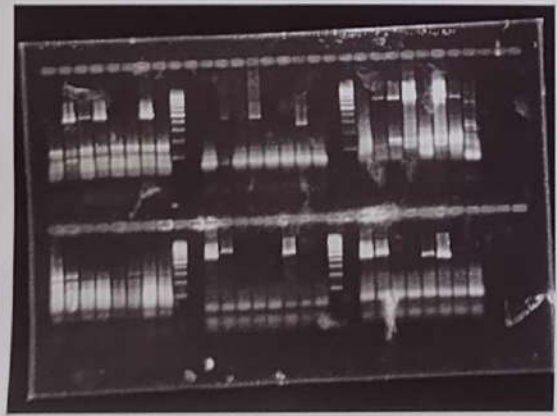


Correction

Set 4 → 4

37

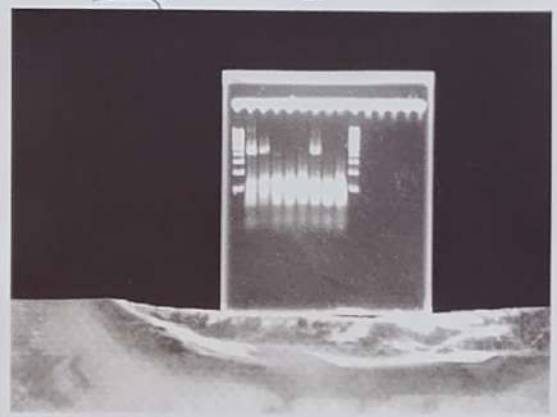
34t



Correction

Set 4

B^u

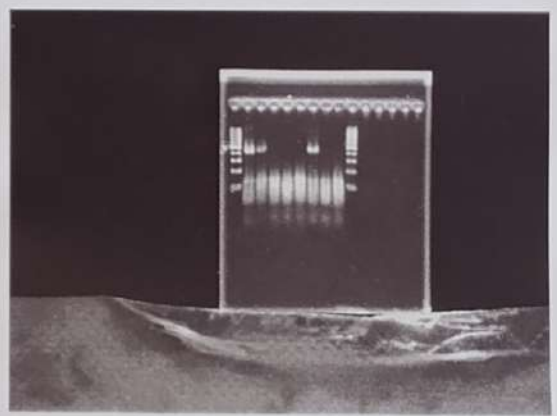


Correction

Set 4

→

B

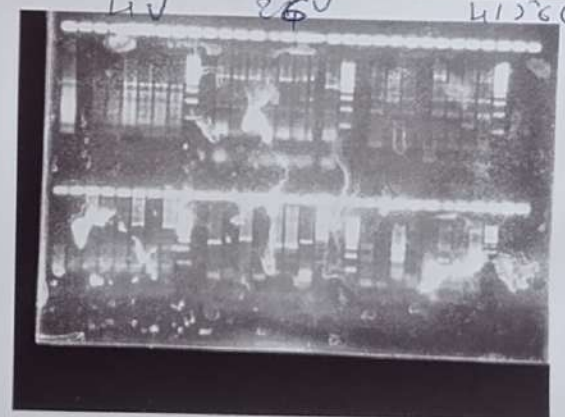


Set 1

4V

26V

415°C



Set 2

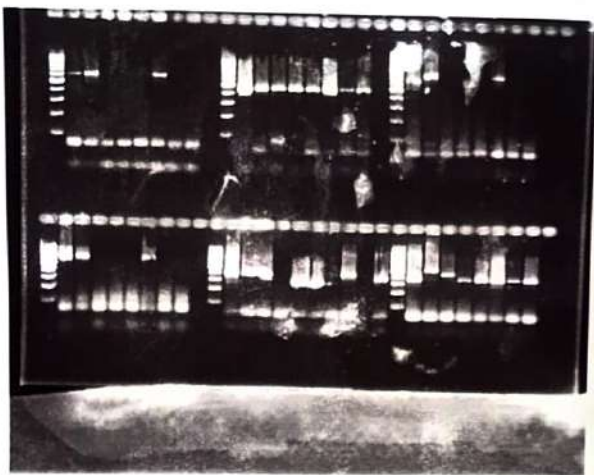
26

M6

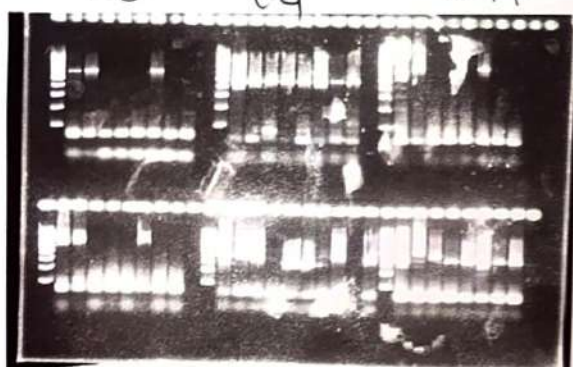
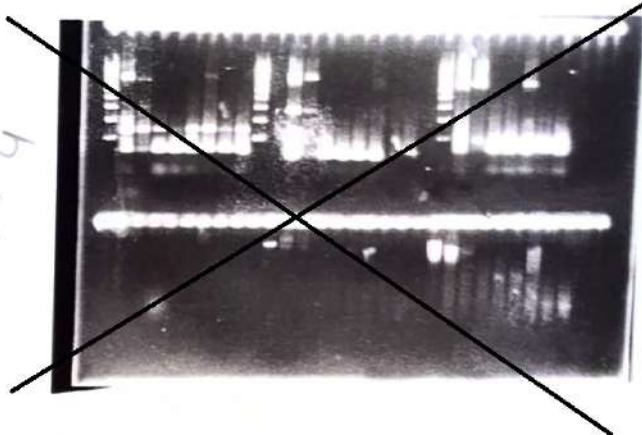
415°C

Correction

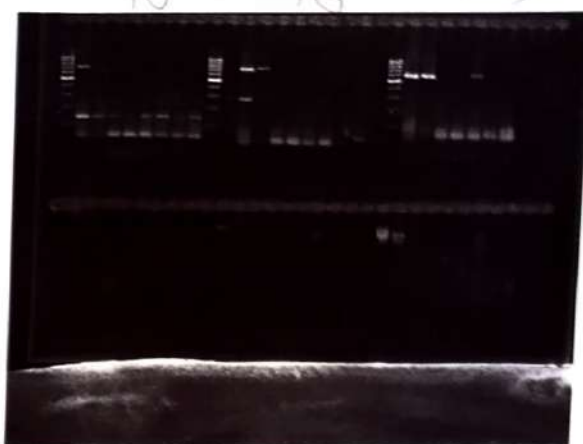
Set
4



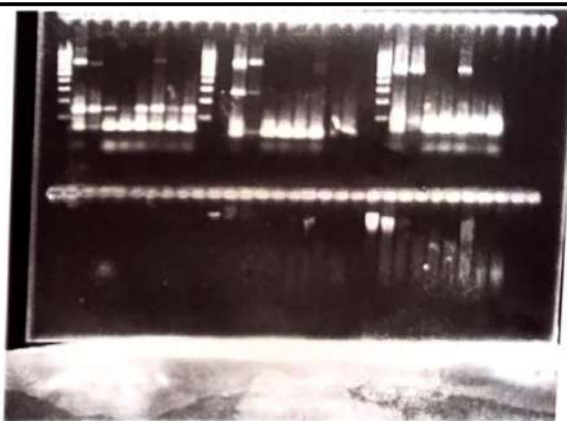
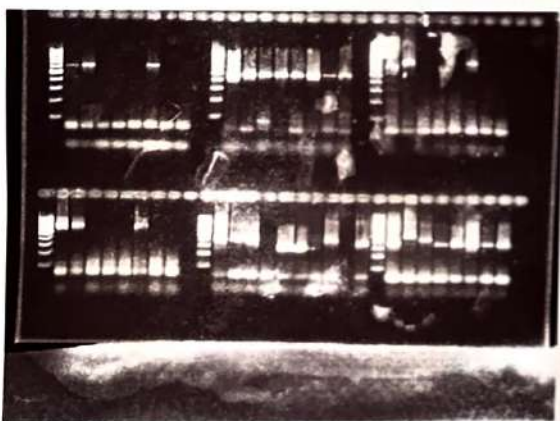
Set 4



27 C A



31. 34f. B.

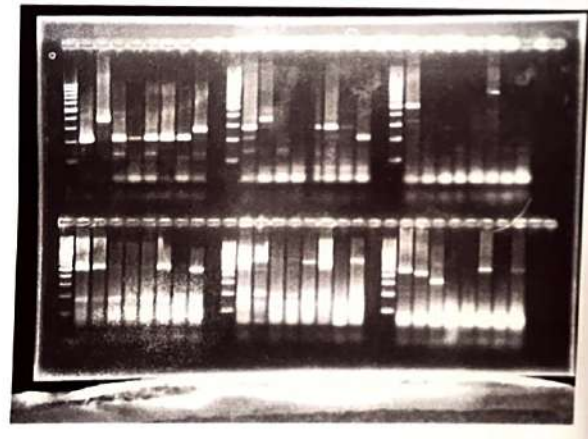
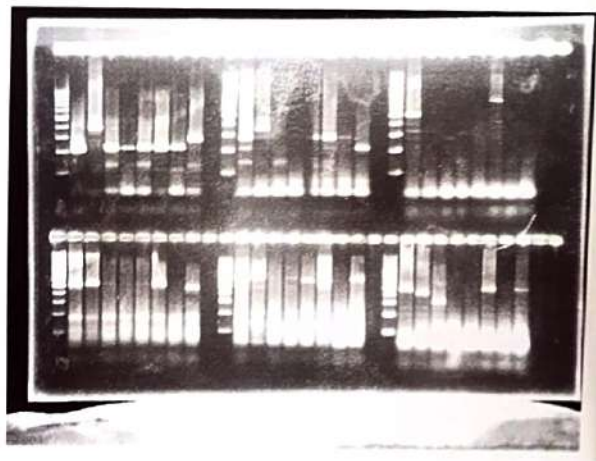


24+V 376V 260V

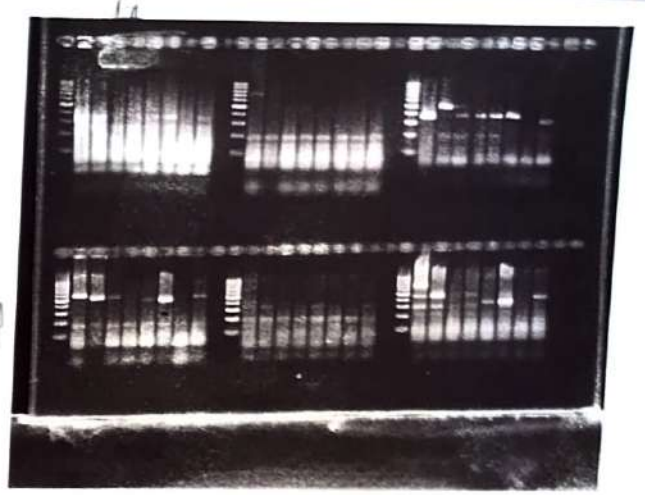
Set 4



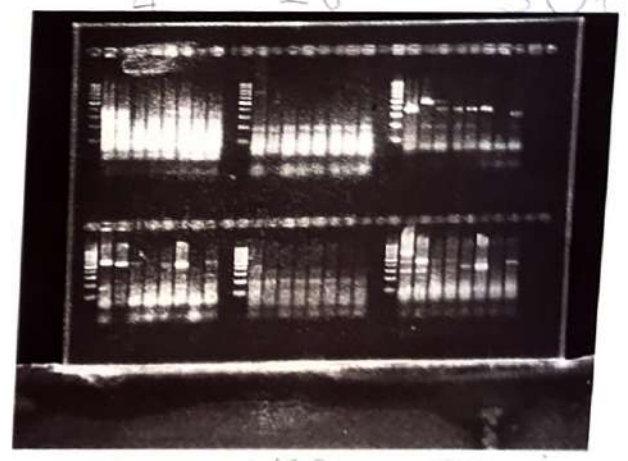
2V 39V 23V



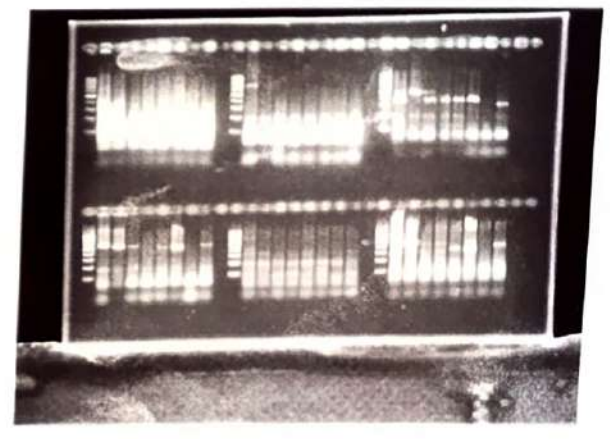
SL
Set 4

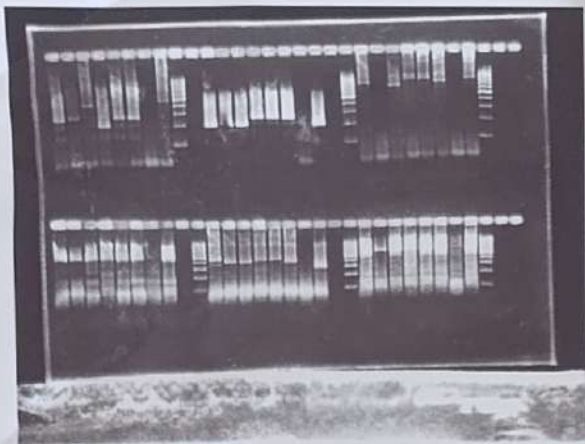


4V 26V 30+V

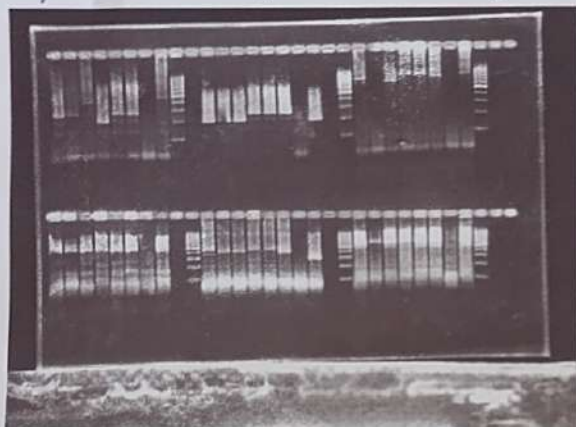


40V 416SC 39 f V
Φ

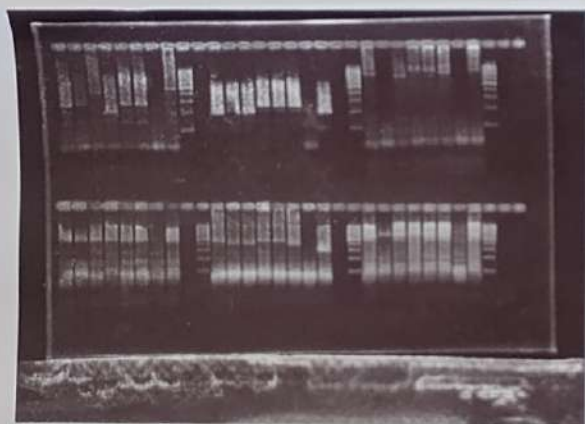




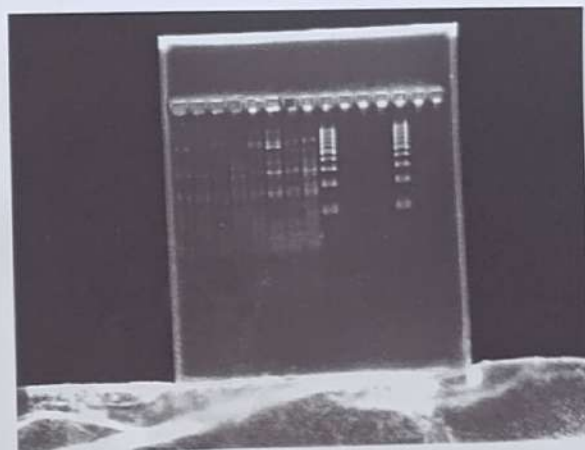
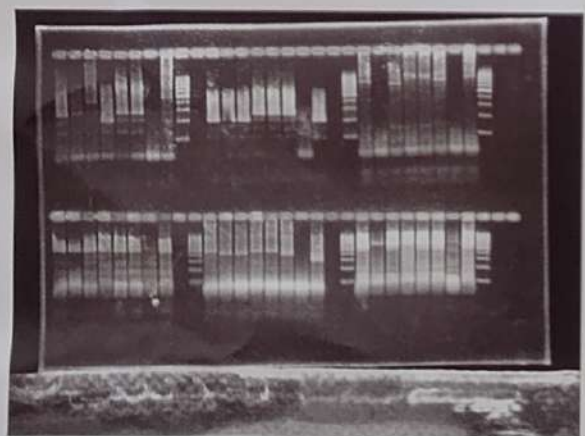
Sets $\phi 116^{\vee}$ $214^{\vee}$ $26\phi^{\vee}$



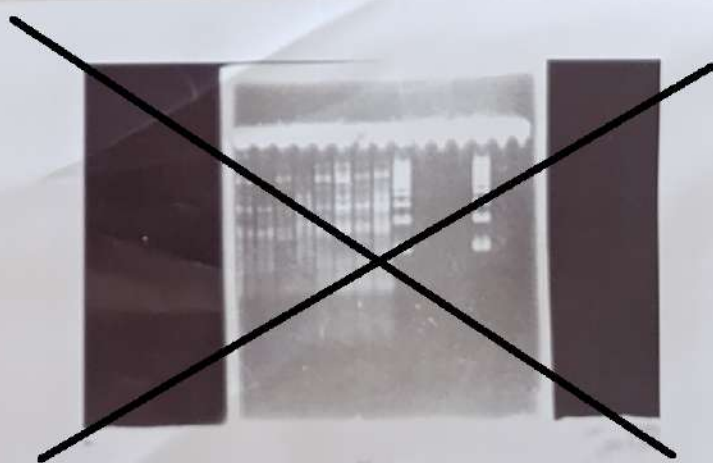
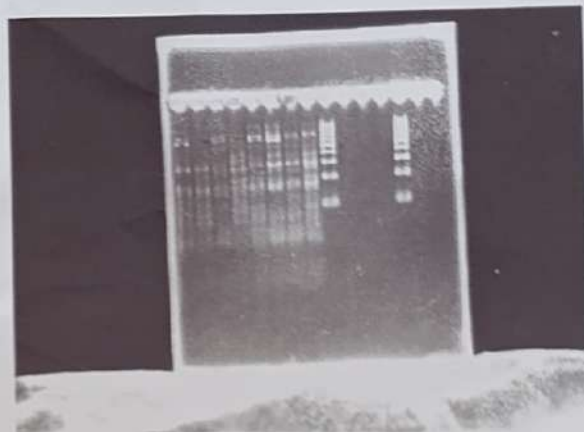
2 23 39.



100
190
110
750
110

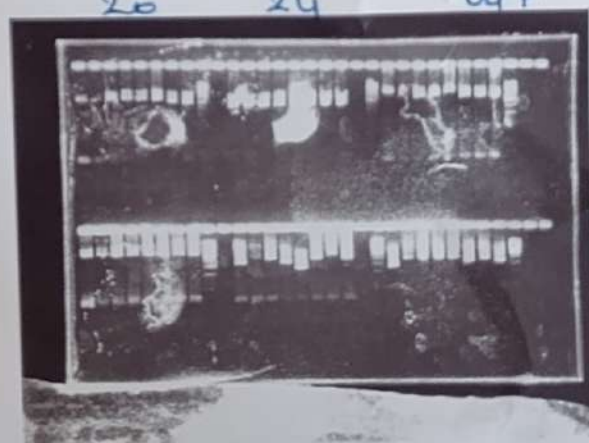


Set 5 4156C Correction



20 24 04+

Set 5



27 A C

Correction

A dark, rectangular object, possibly a book cover or a piece of paper, with a horizontal strip of small, light-colored, circular or oval shapes running across the middle. The object is heavily textured and appears to be made of a dark material like leather or cloth.

31

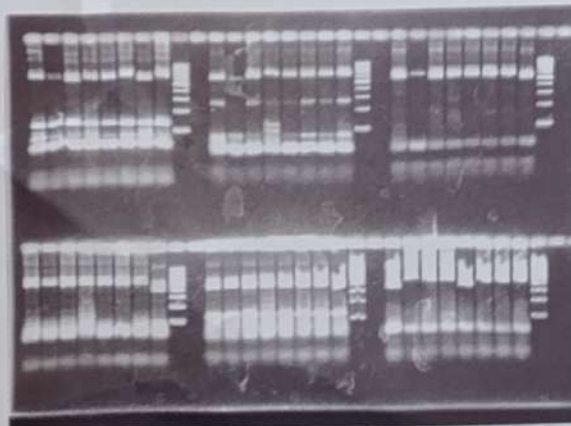
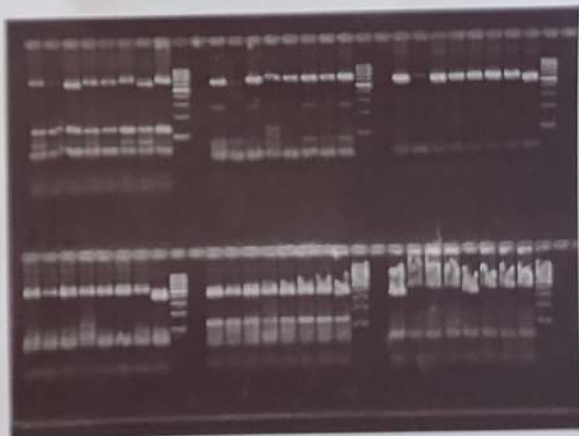
A dark, rectangular object, possibly a book cover or a piece of paper, with two horizontal rows of small, light-colored, rectangular labels or tabs attached to it. The labels are arranged in two rows, one near the top and one near the bottom, and appear to be made of a different material than the main surface.

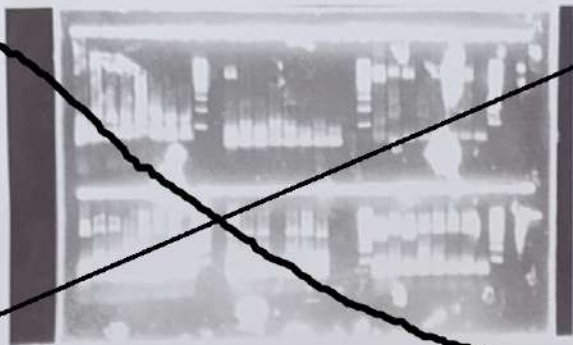
346

$\begin{array}{r} 600 \\ 900 \\ \hline 1500 \end{array}$

42

34 t.v.



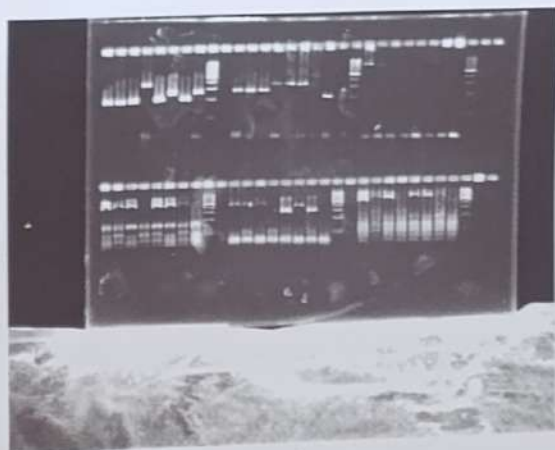
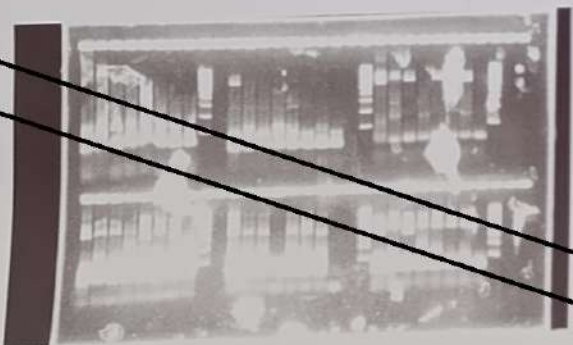


Set 6

10' 16^v 31^v

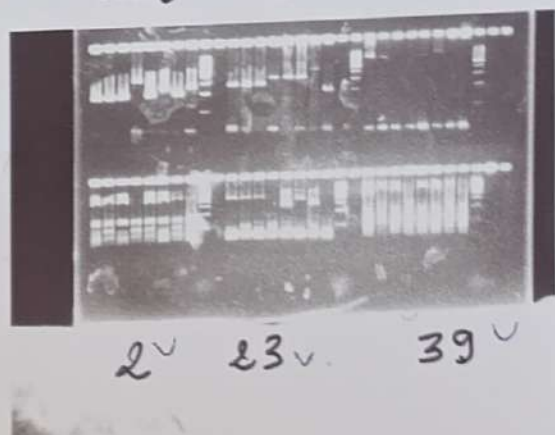


29^v 3^v 34^v

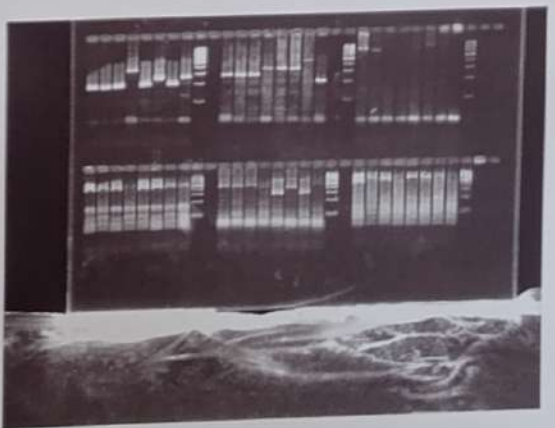


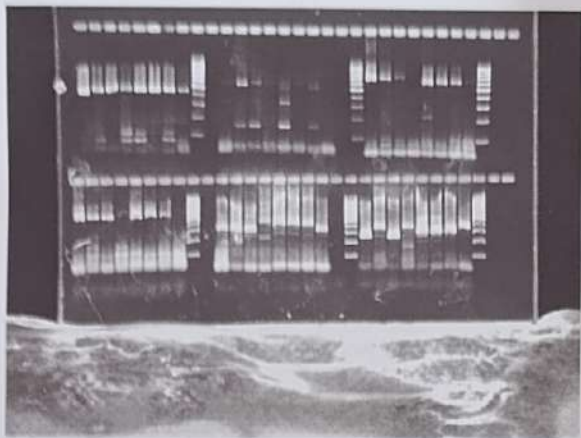
Set 6

24^v Mb 26^v



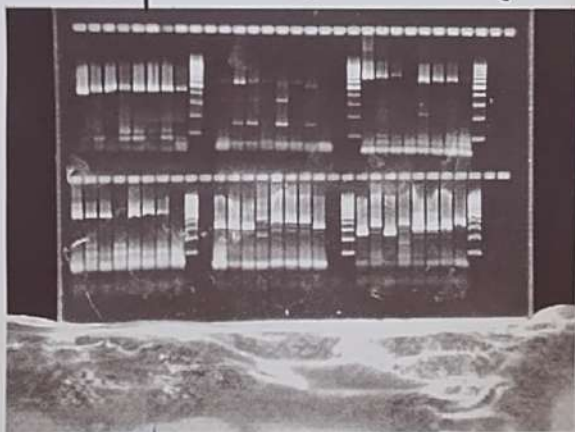
2^v 23^v 39^v



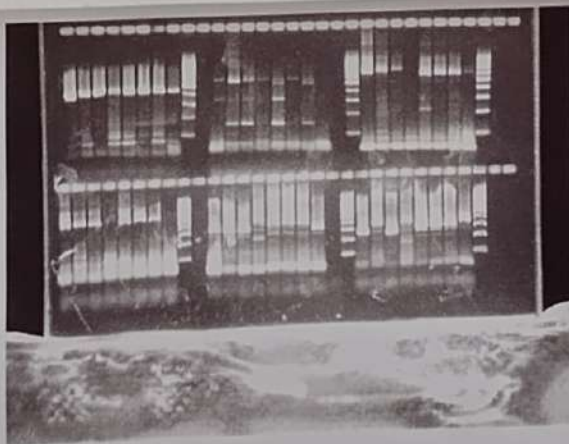
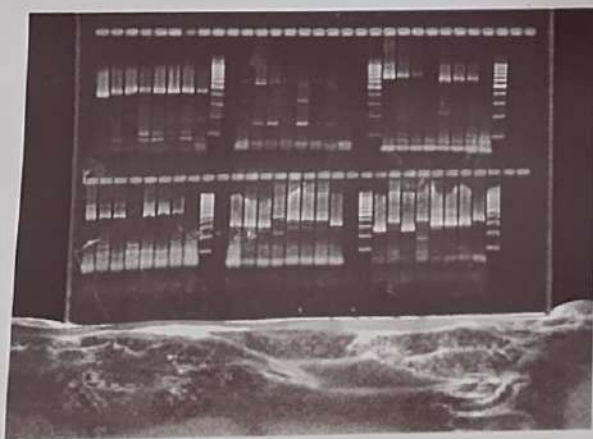


Set
6

24 20^v 04 t^v

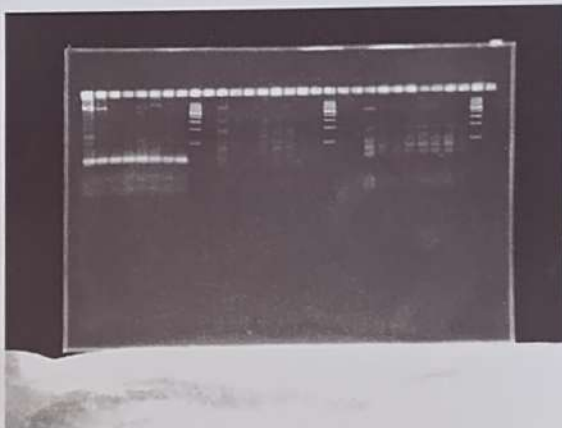


27^v A^v C^v

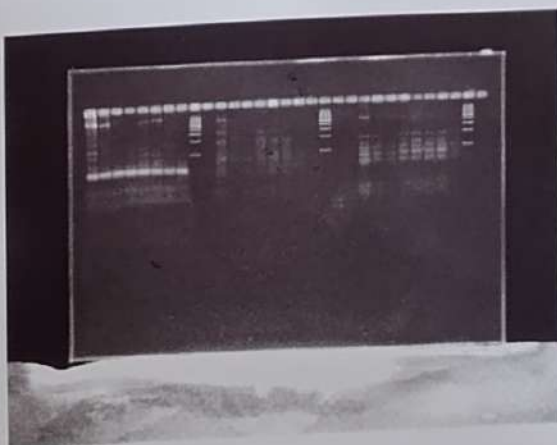
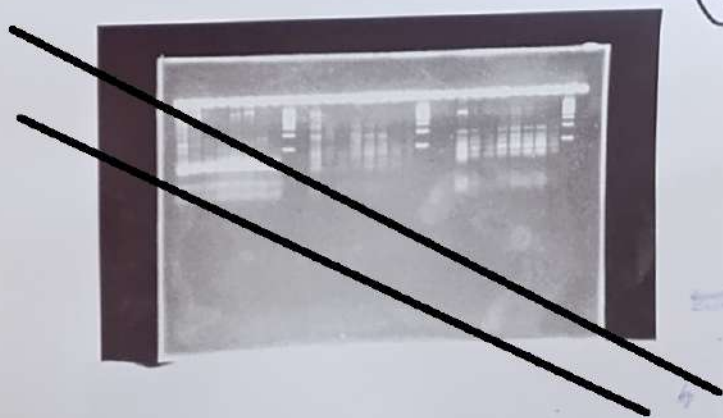


26^Q WRC 26 M

Set
6

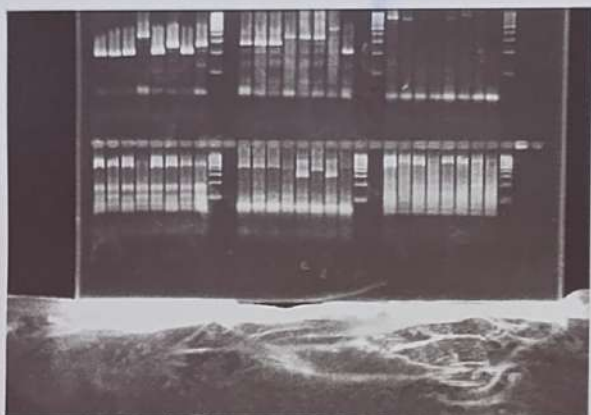


Correction



Set 6

216[✓] 116[✓] 260

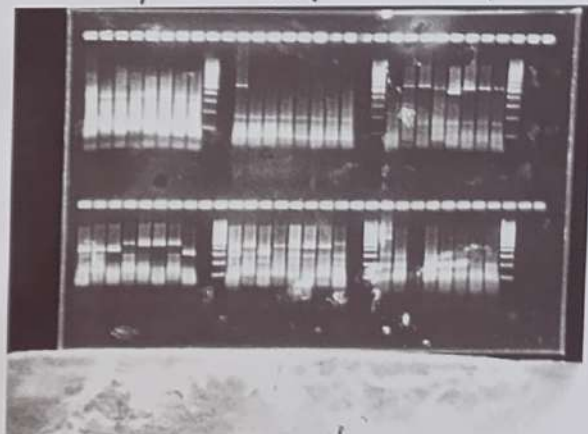


2[✓] 23[✓] 39[✓]

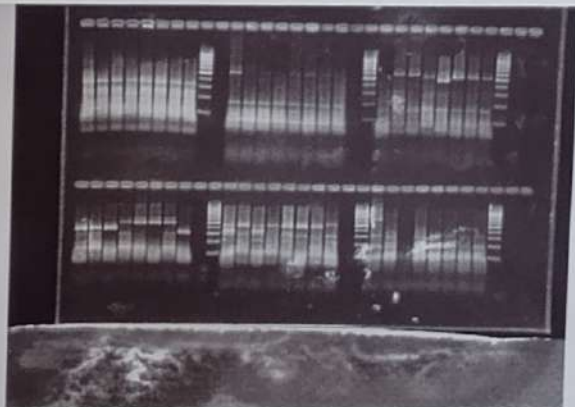
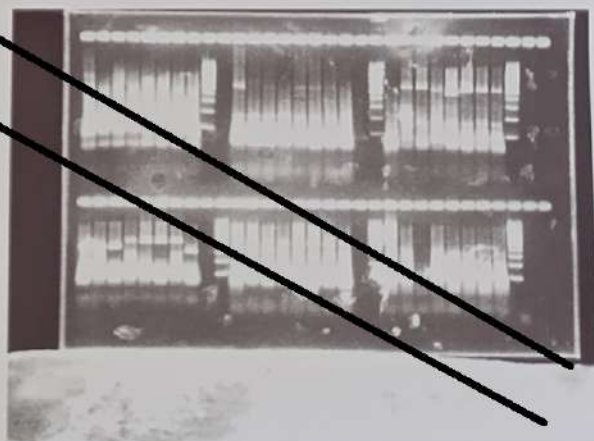
Set
6

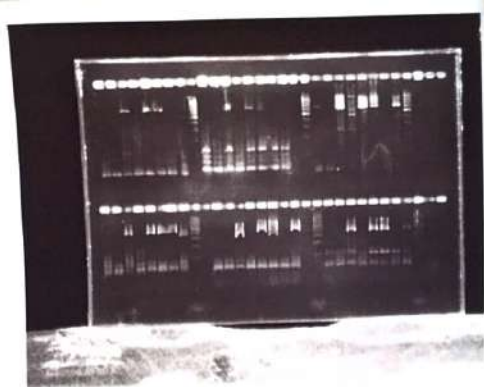


4 26[✓] 40[✓]



30[✓] 39[✓] 4156c



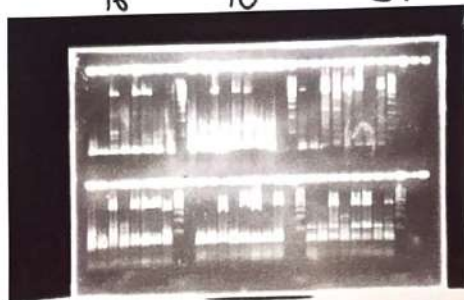


Set 7

16[✓]

10[✓]

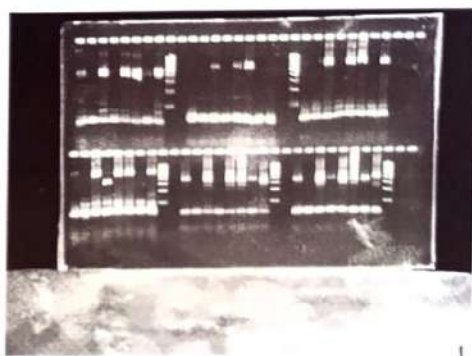
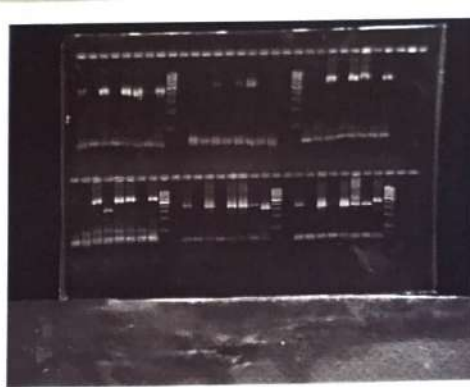
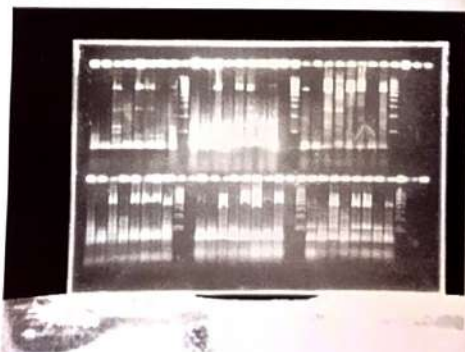
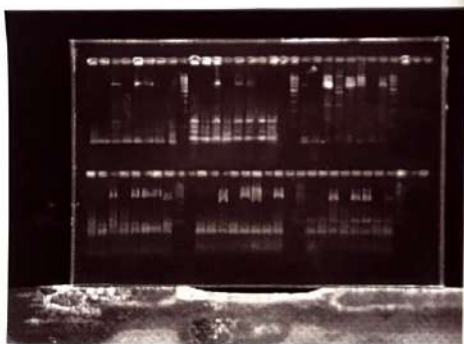
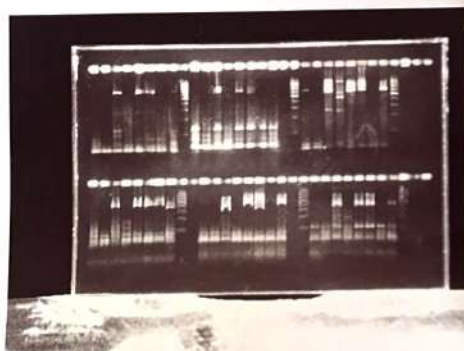
31[✓]



29[✓]

34[✓]

13[✓]

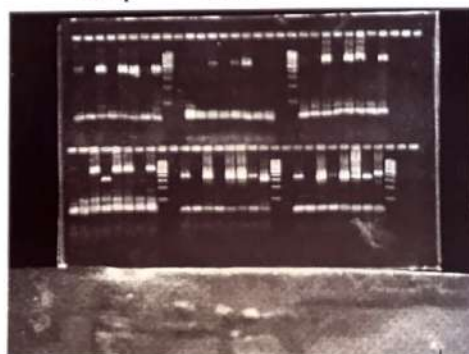


Set 7

24[✓]

20[✓]

04[✓]



27[✓]

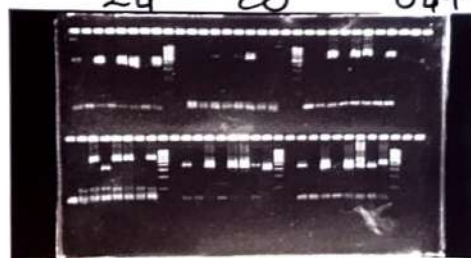
C[✓]

A[✓]

24

20

04⁺

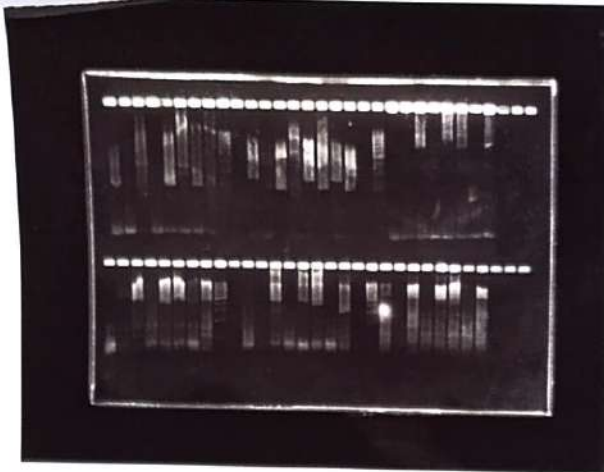


Set 7

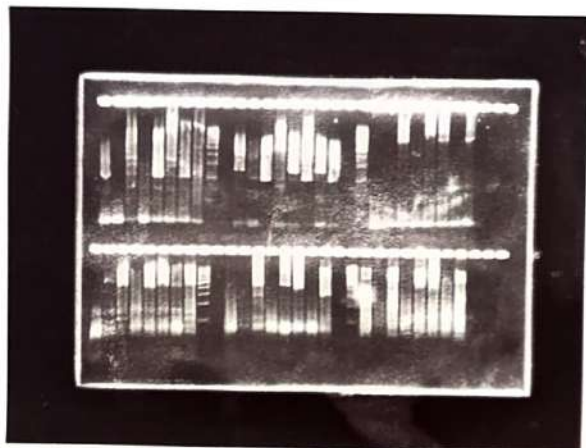
27

C

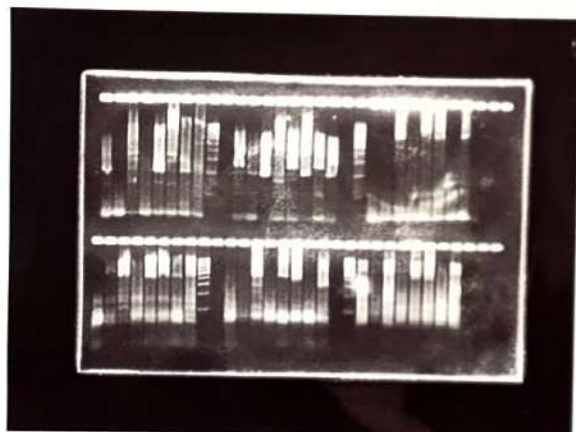
A



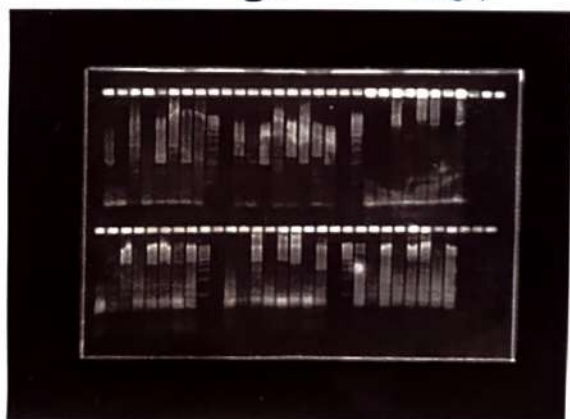
Set 7



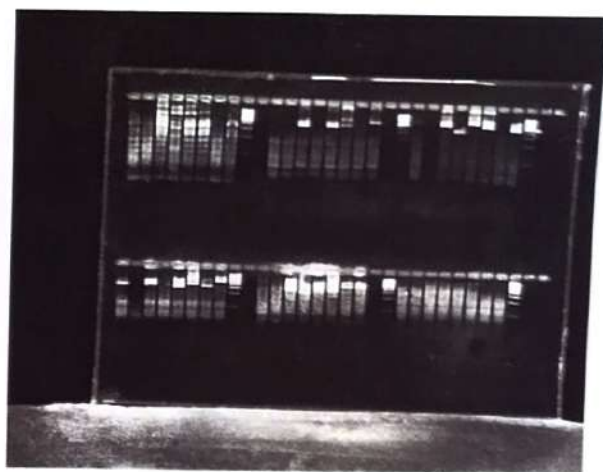
Set 7



116 21 26+

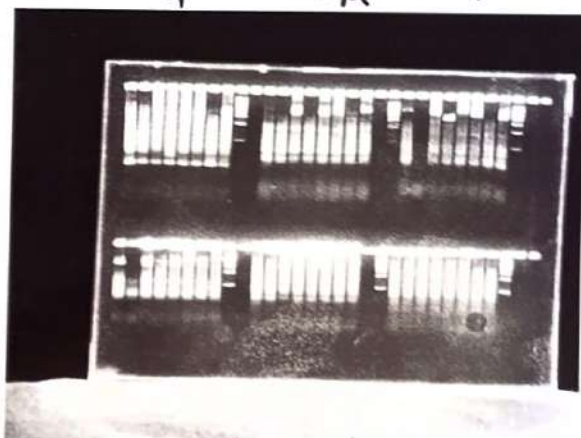


2 23 39

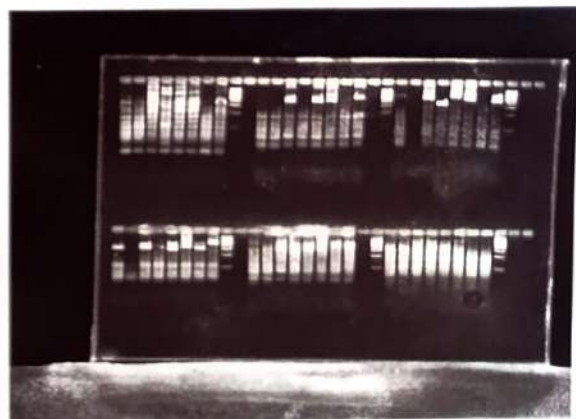


Set 7

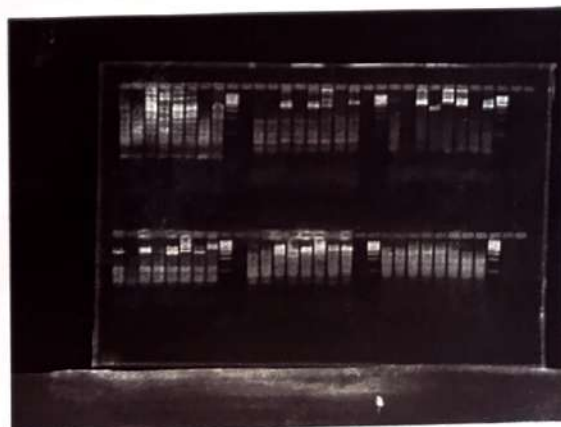
4 26m 40

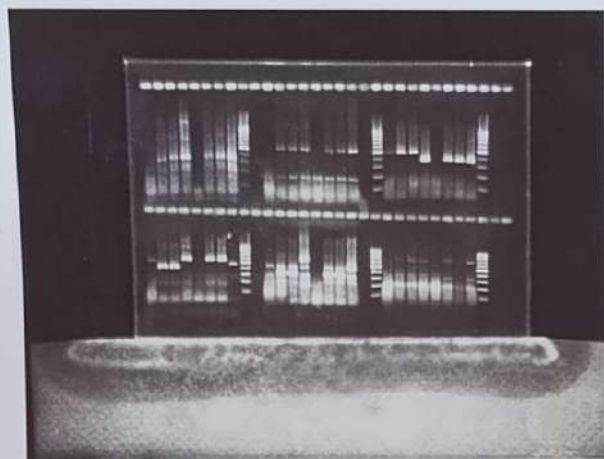


30f 48 29 1465c



39+



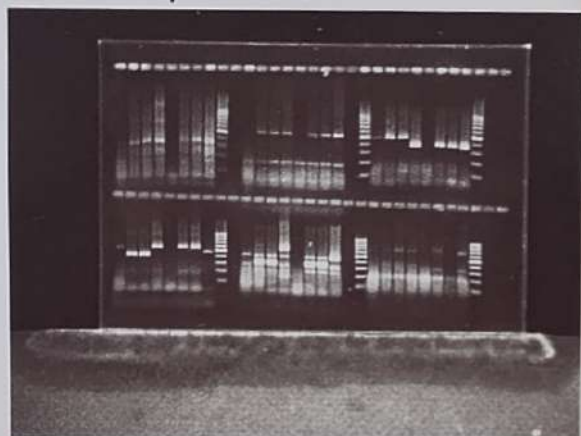


Set 8

4[✓]

26[✓]

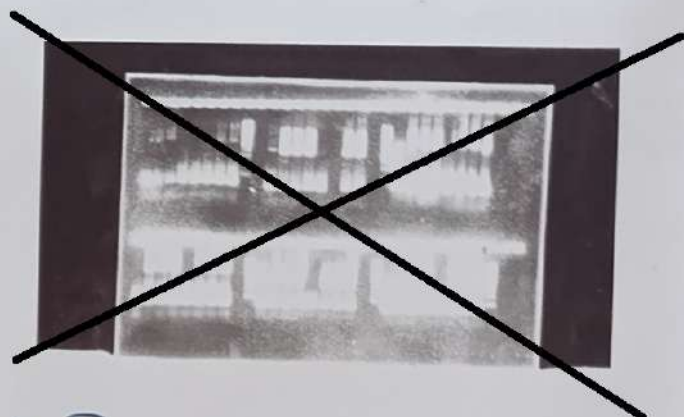
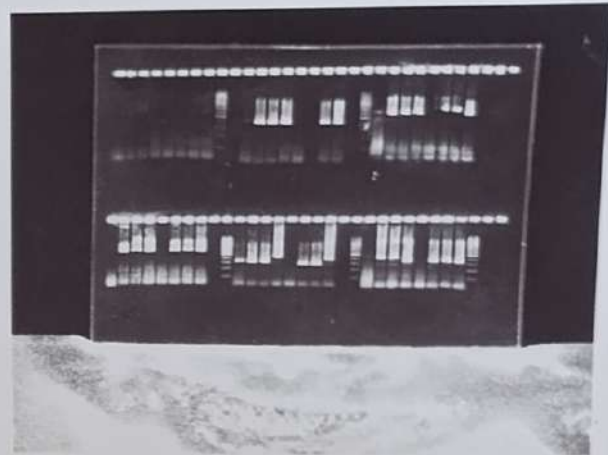
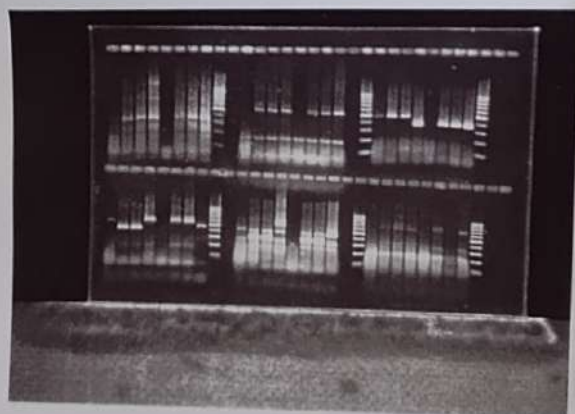
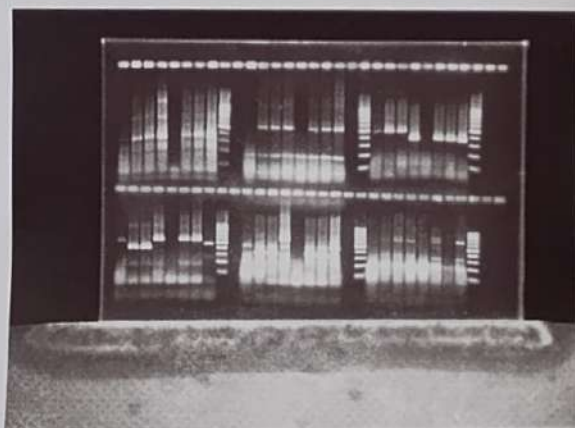
30+



✓40

39+✓

4165c✓

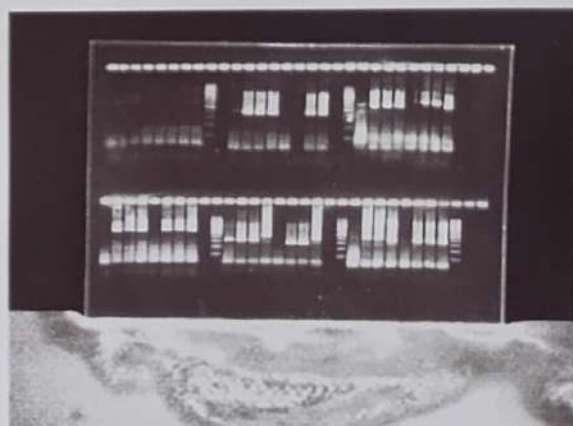


Set 8

✓
20

✓
24

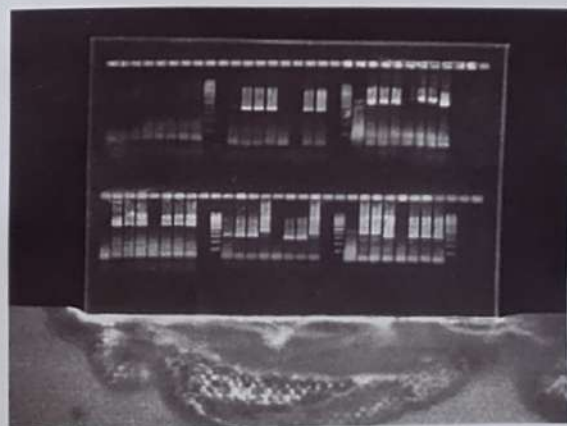
✓
04+

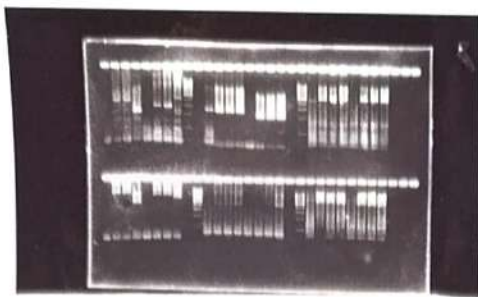


27✓

✓
C

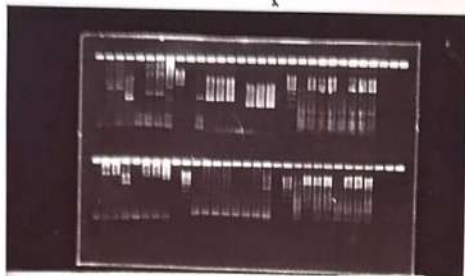
✓
A



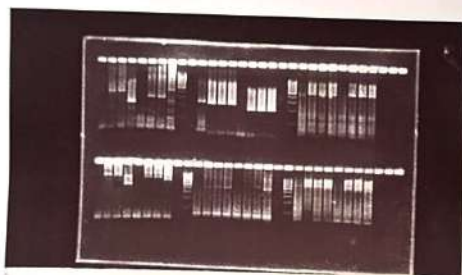


Set 8

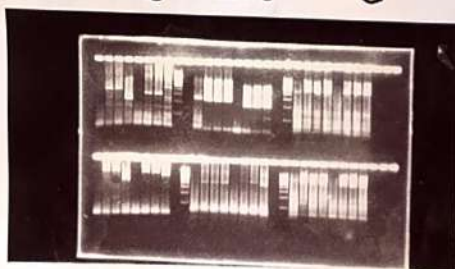
✓
11b 24t 2



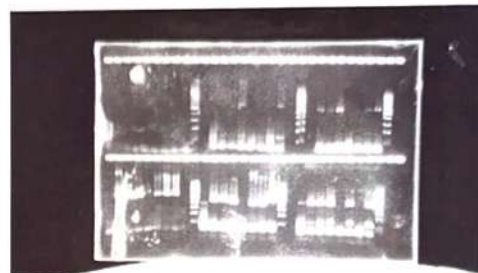
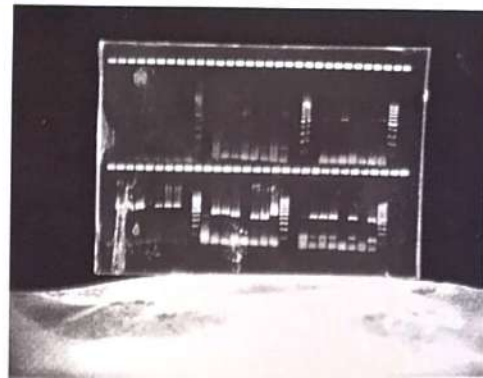
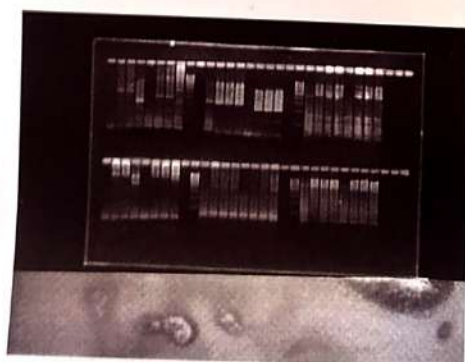
✓ ✓ ✓
26φ 23 39



11b 21t 2



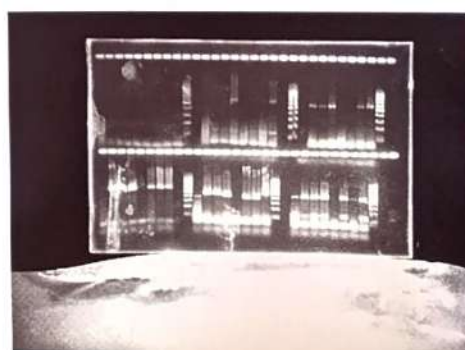
26φ 23 39



Set 8 X ✓ J
16 10 29t



31V 34 B V
t



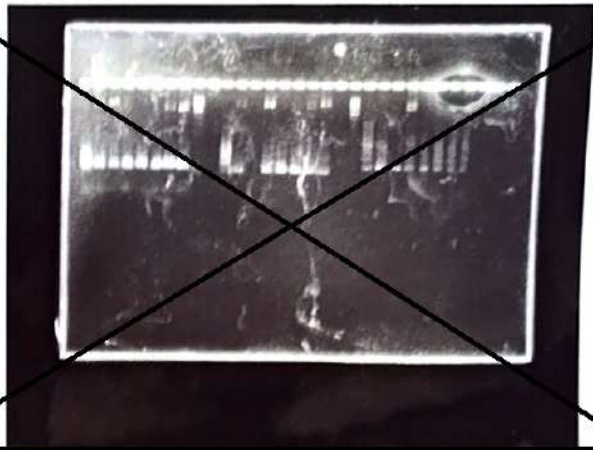
11b 21t 2



26φ 23 39

Set 8

Correctum



Set 8

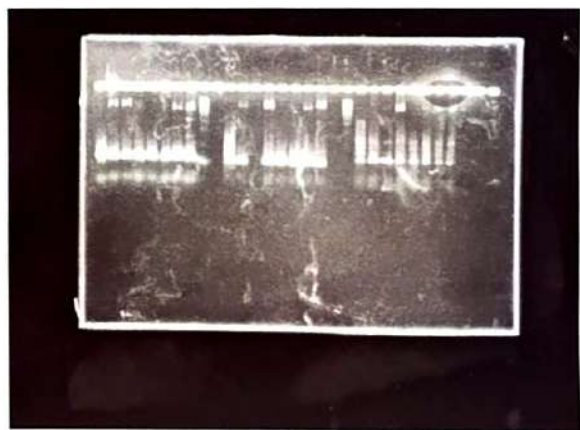
20

16

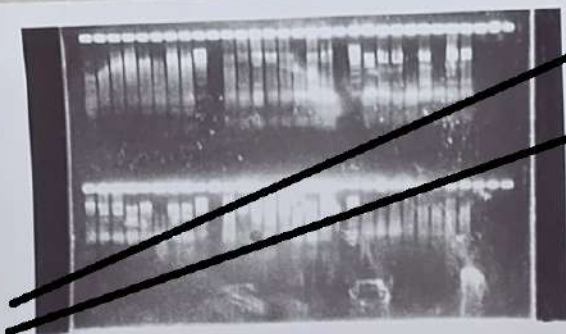
10



Correction



Set 9



4 M26

40

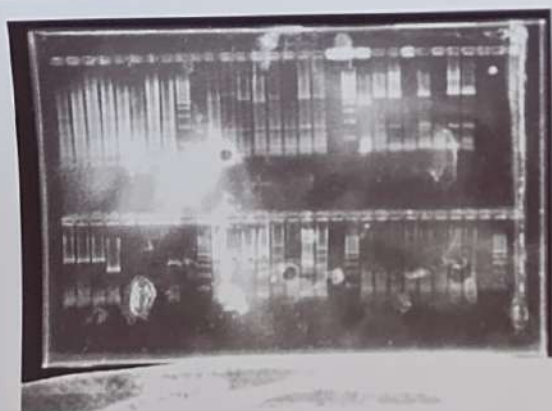
7.8
Sketch
of 28M



306

394

4185
C



Set 9

M4

26M^v

40^v



304^v

394^v

4185c

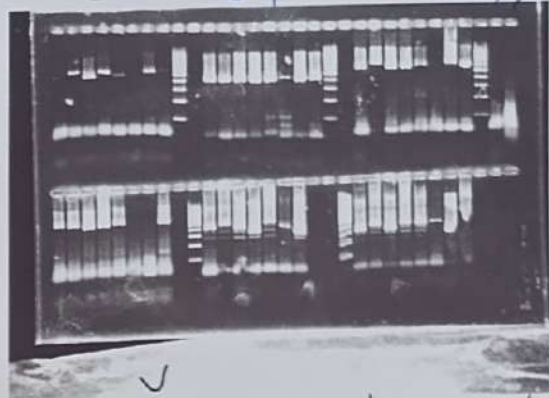
Set 9

20^v

24^v

044^v

Set 10
4M/94



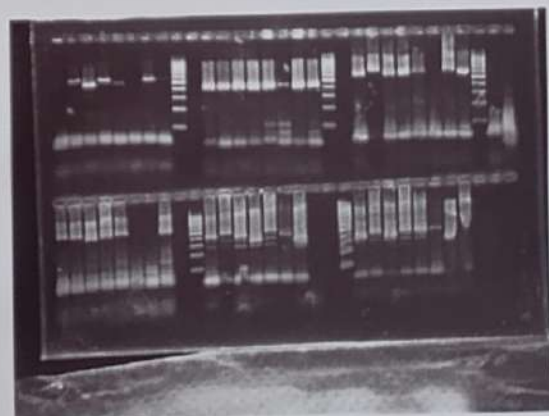
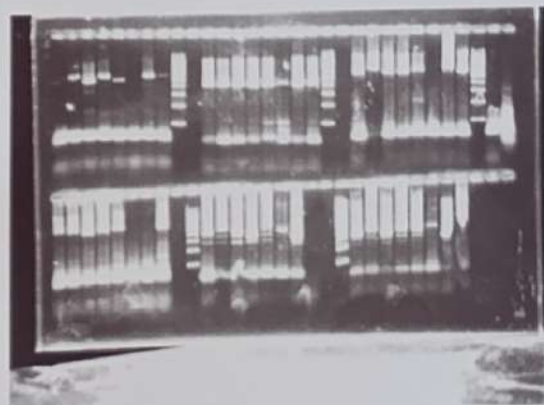
27^v

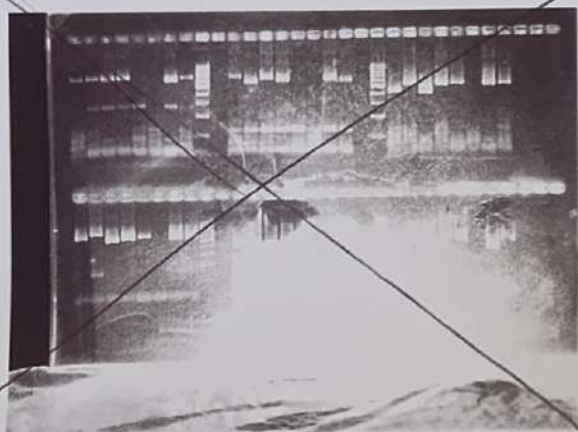
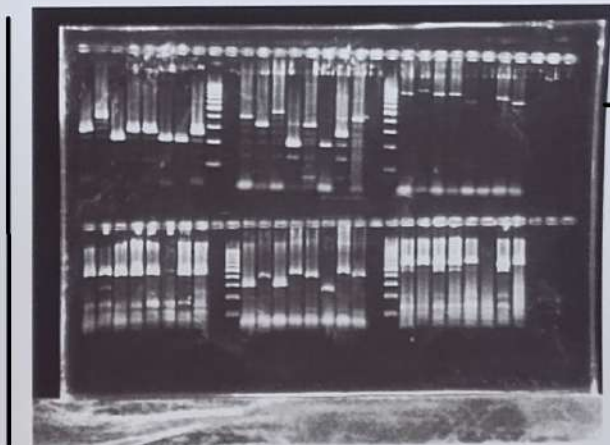
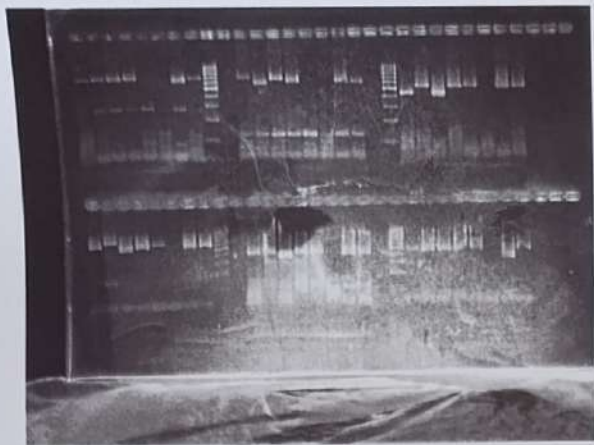
A^v

C^v



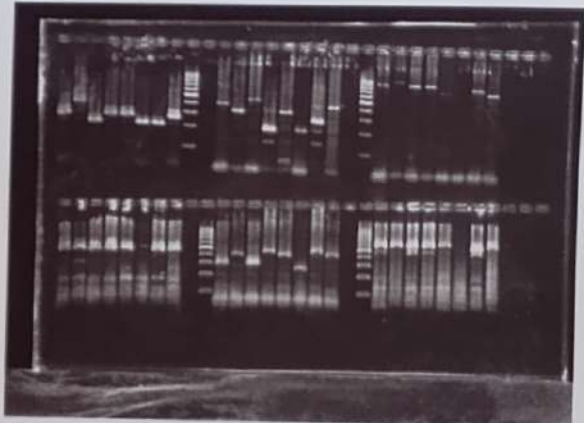
Corrections





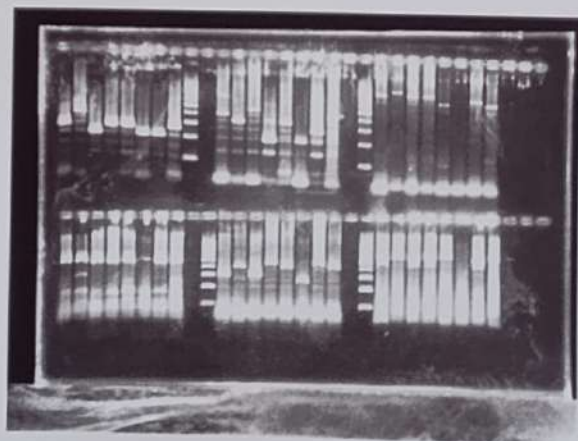
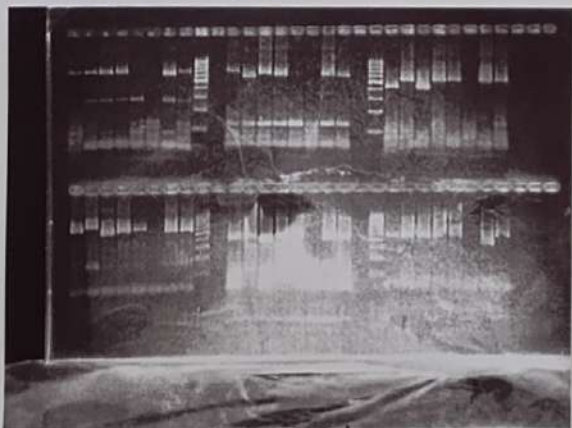
Set 9

Set 9 21^v 176^v 26^v

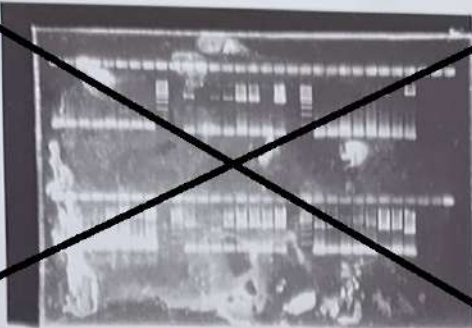


16^v 10^v 29 f^v

24^v 23^v 39^v

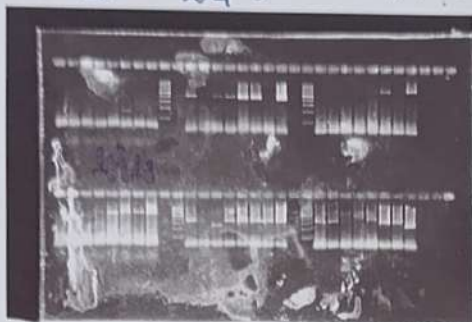


31^v 13^v 34 f^v



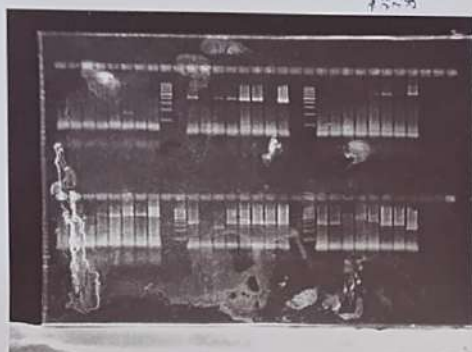
Set 10

20_v 24_v 04+_v



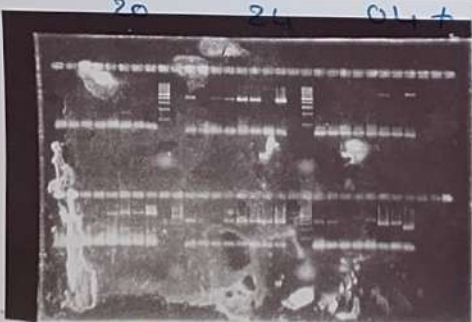
27_v C_v A_v

1323



20 24 04+

Set 10



27 C A

Correction

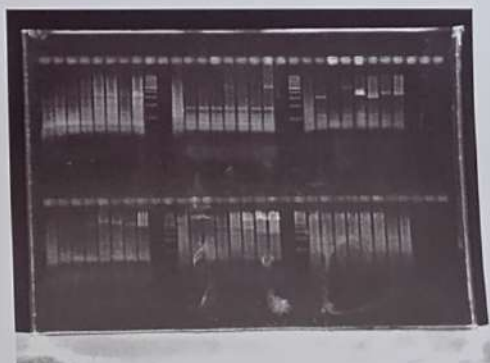
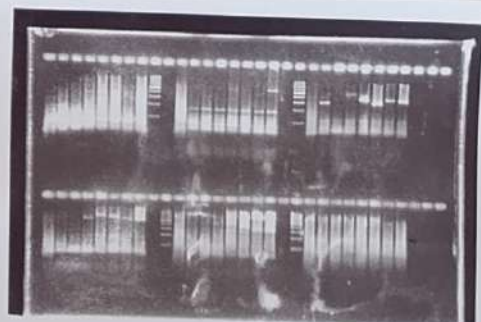


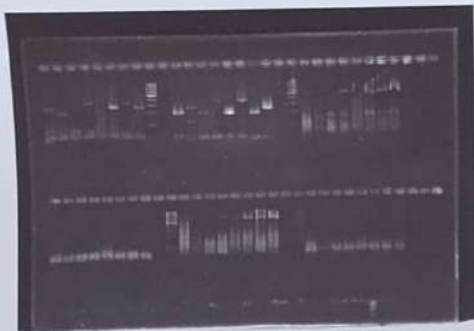
Set 10

4M_v 26_v 30+_v

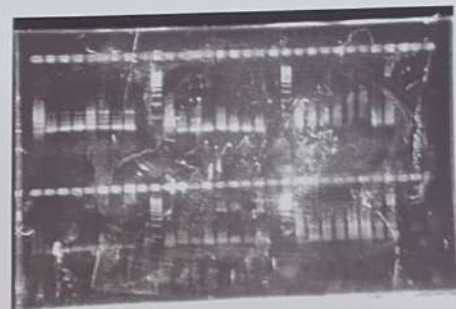
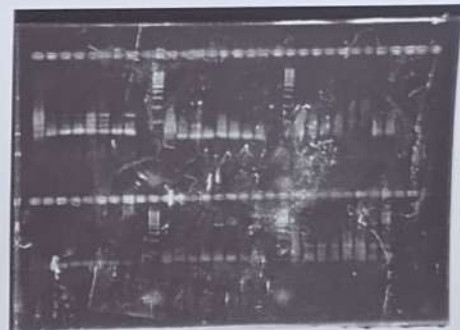
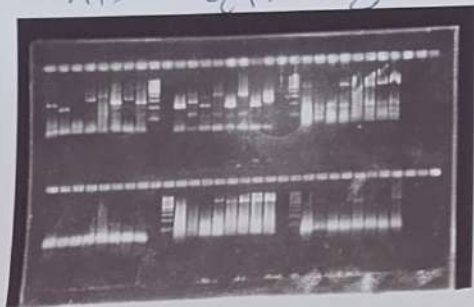


40_v 39+_v 4165c





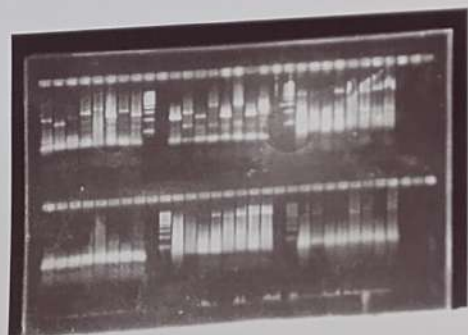
11b 21t 2



Set 10 ✓
10 11b 21t 2



28 39M 23M

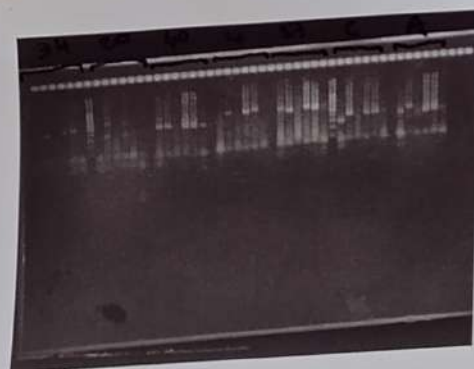
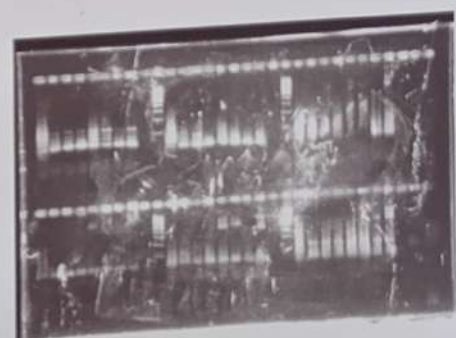


Set 10

10 16 29t



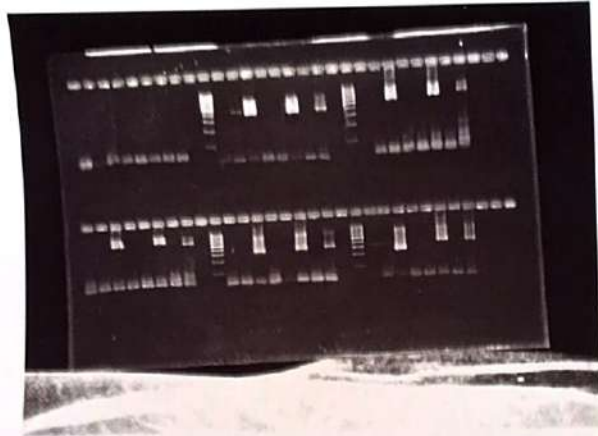
31 34t B



Set 10 Control

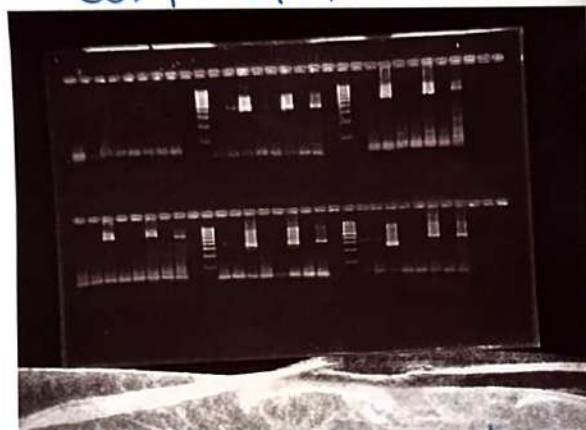


2 11b

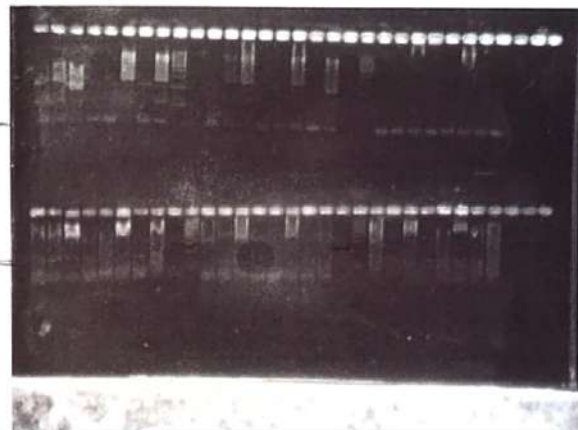
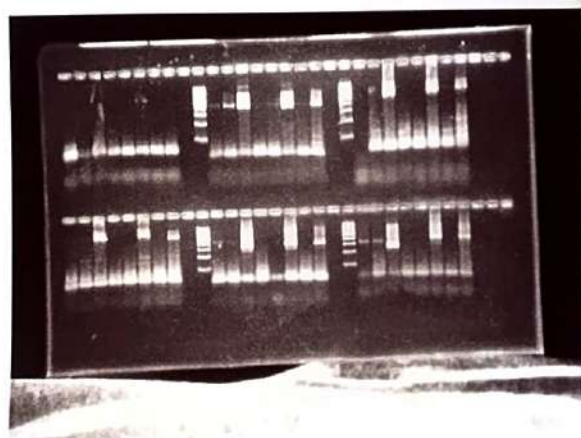


Set
11

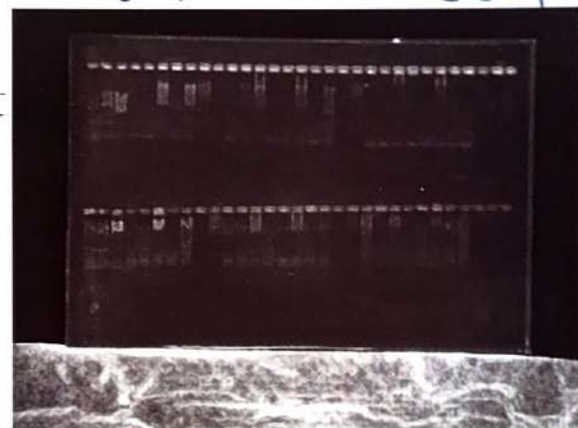
20M ✓ 24M ✓ 27M ✓



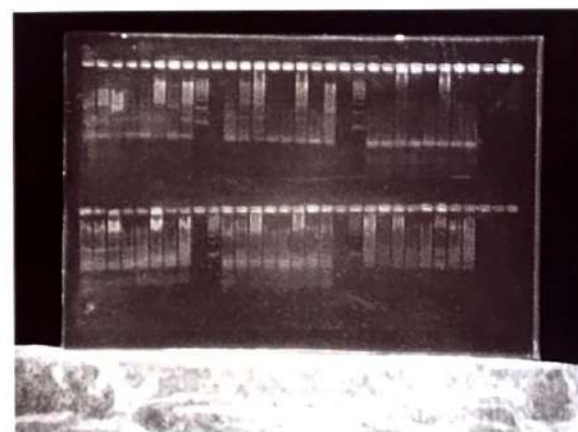
04t ✓ A ✓ EV

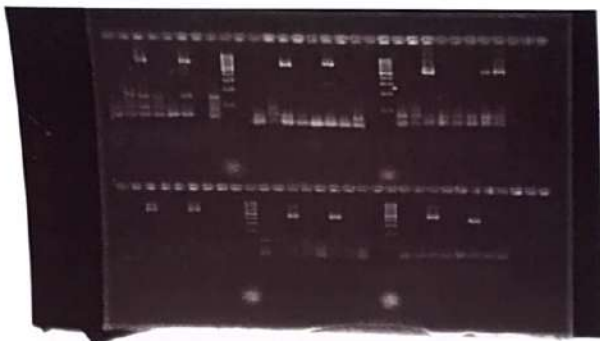


21t ✓ 11b ✓ 26Φ

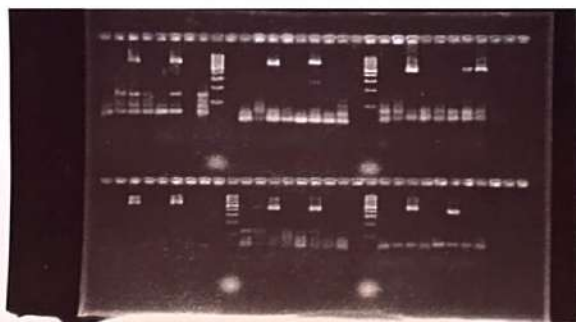


Set 11 2 ✓ 27 ✓ 39

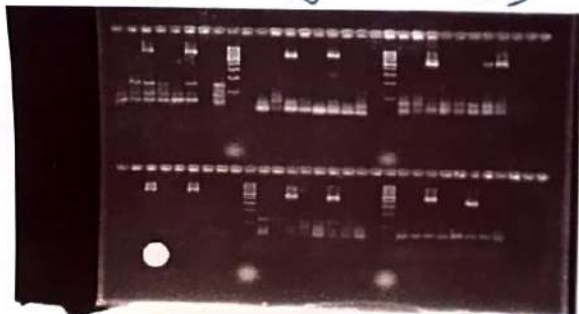




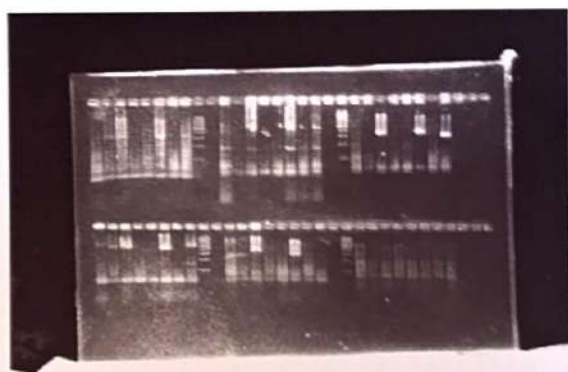
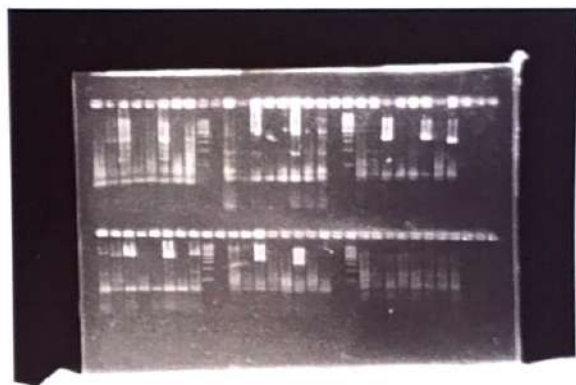
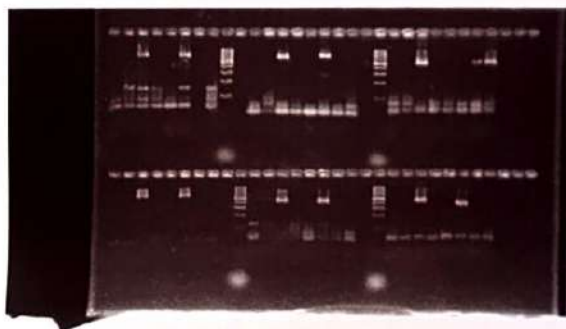
Set 11



10[✓] 16[✓] 29[✓]

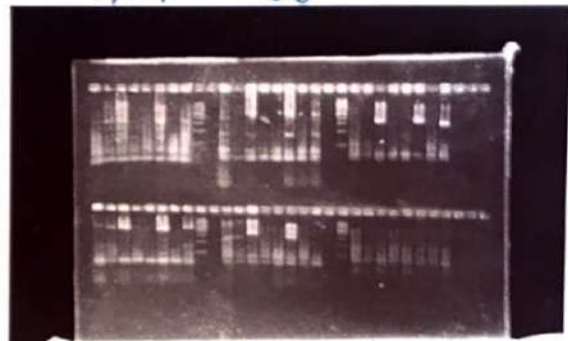


31[✓] B[✓] 34+[✓]

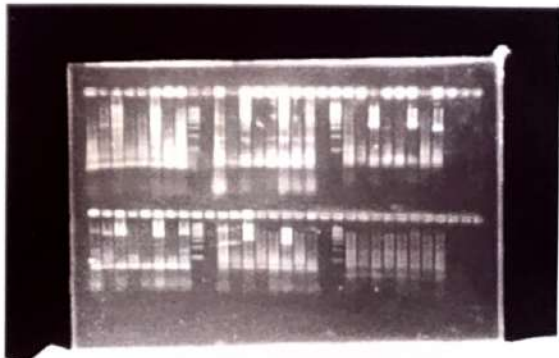


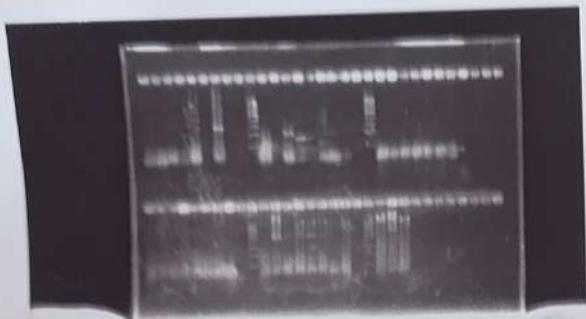
Set 11

4M[✓] 26[✓] 30+[✓]



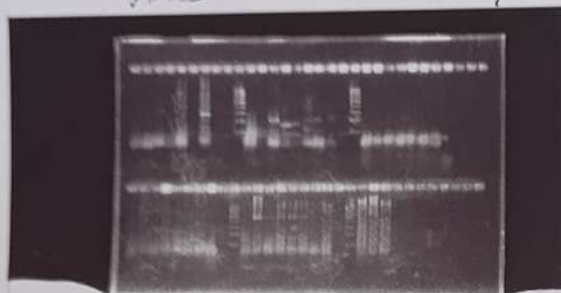
40[✓] 39+[✓] 4156c[✓]



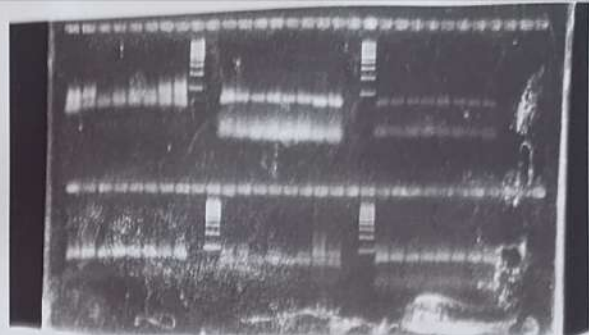
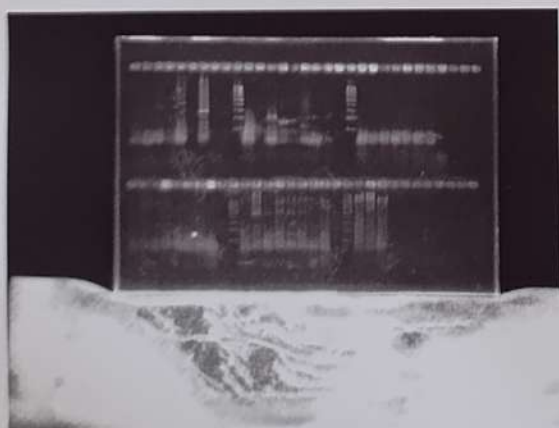
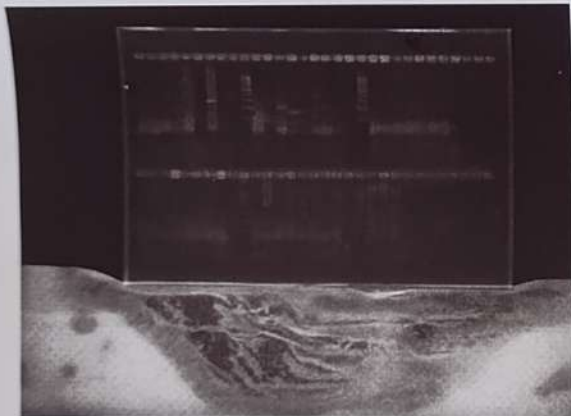


Set 12

116 ✓ 214 ✓ 289 ✓



23M 2M ✓ 39M ✓

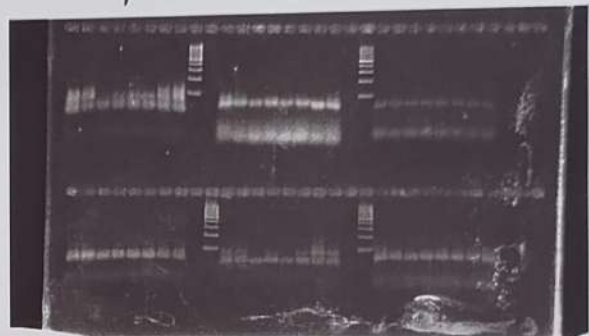


Set
12

4

26

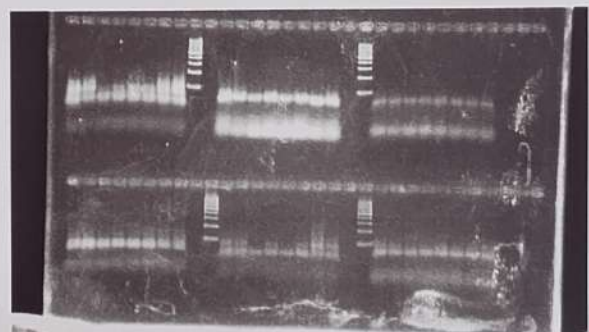
40

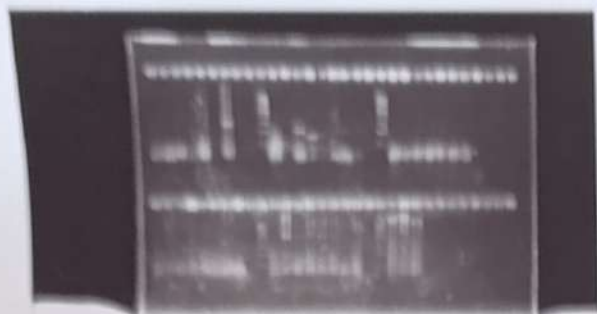


30+

4156

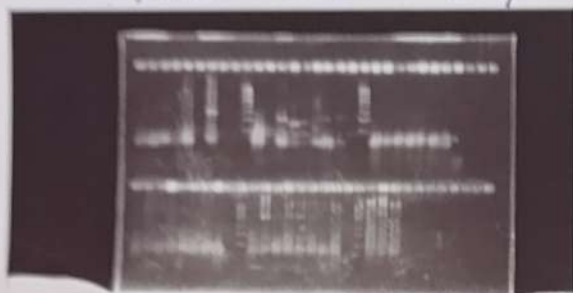
39+



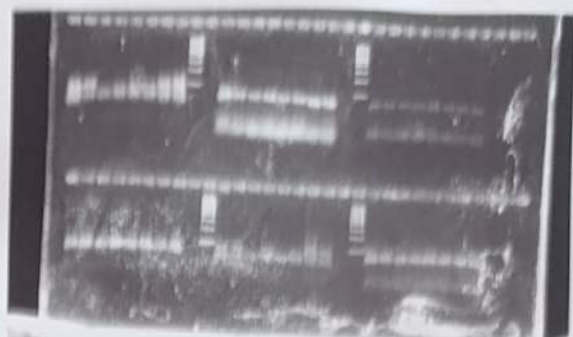
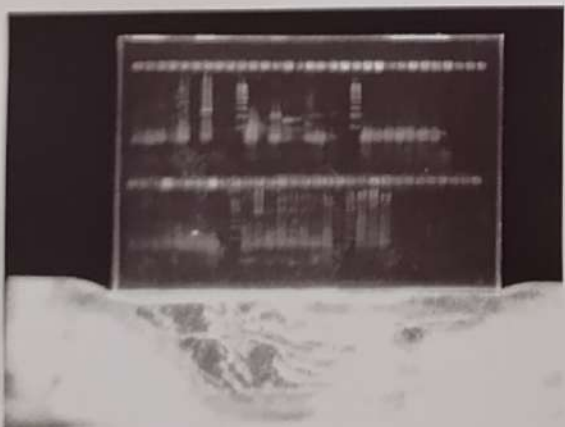
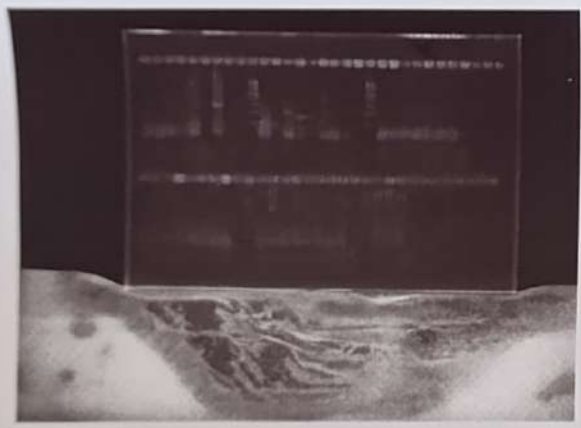


Set 12

MB ✓ 21+ ✓ 289 ✓

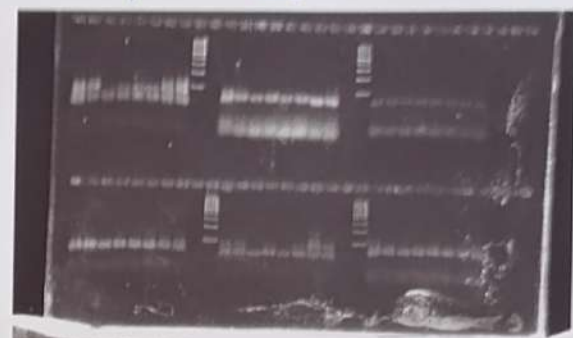


23M ✓ 2M ✓ 39M ✓

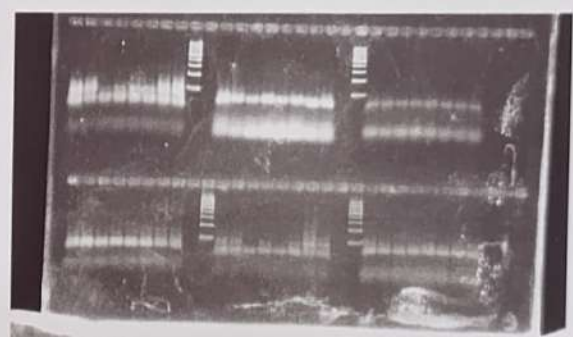


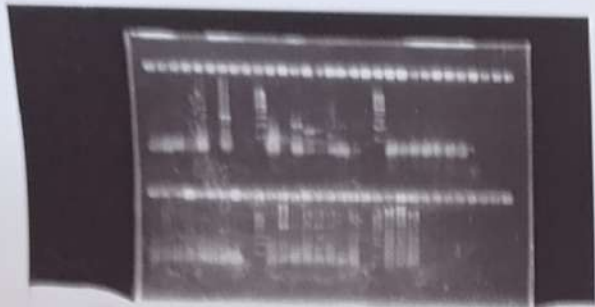
Set 12

4 26 40



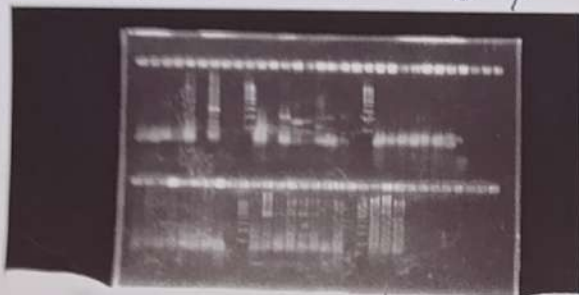
30+ 4156 39+



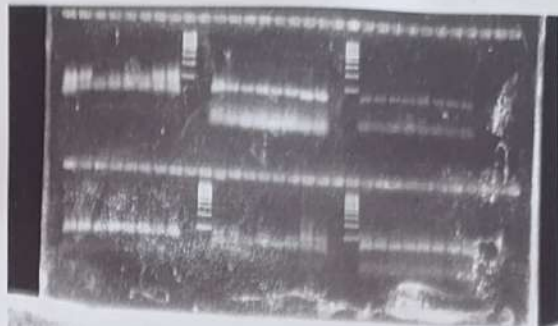
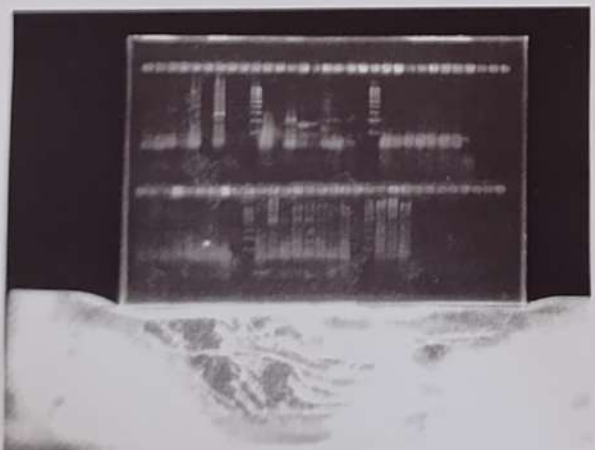


Set 12

116 ✓ 21+ ✓ 289 ✓



23M 2M ✓ 39M ✓

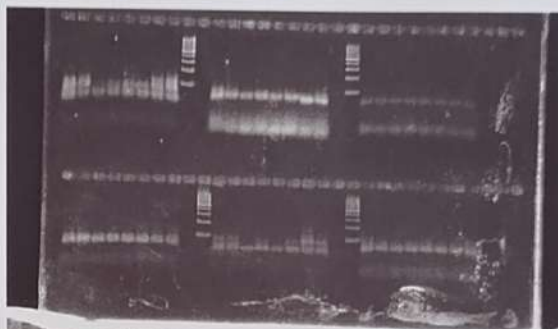


Set
12

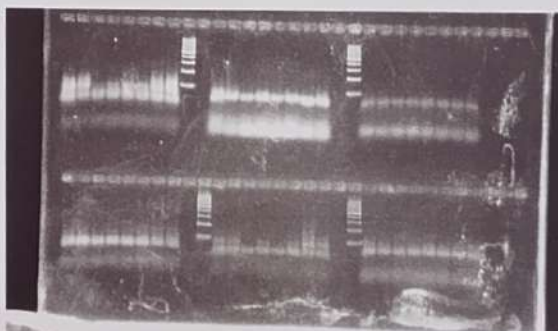
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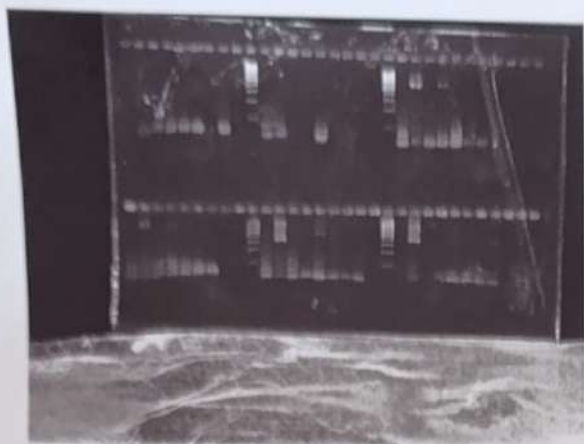
26

40



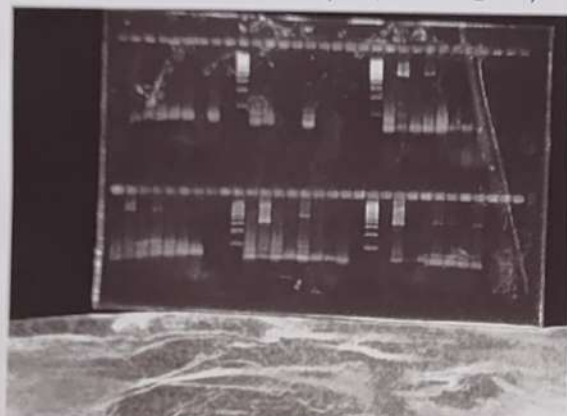
30+ 4158 39+



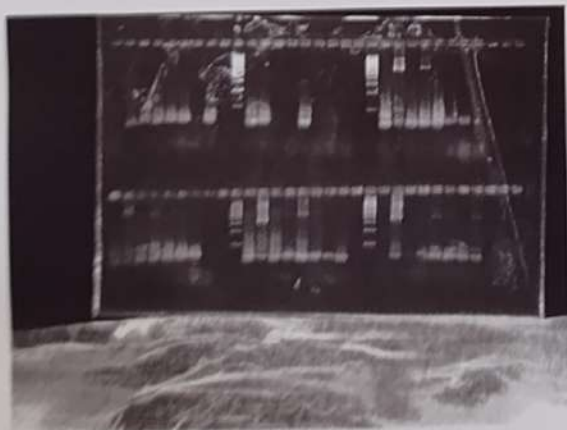
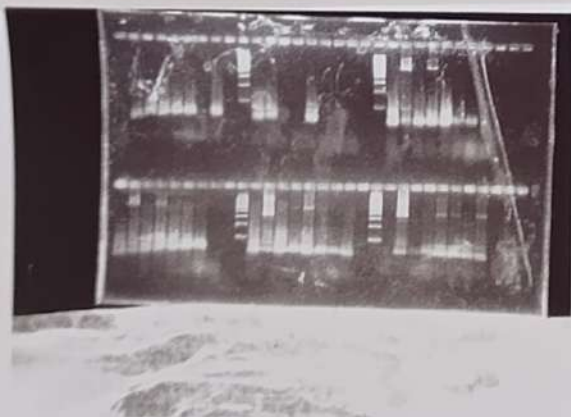


Set
12

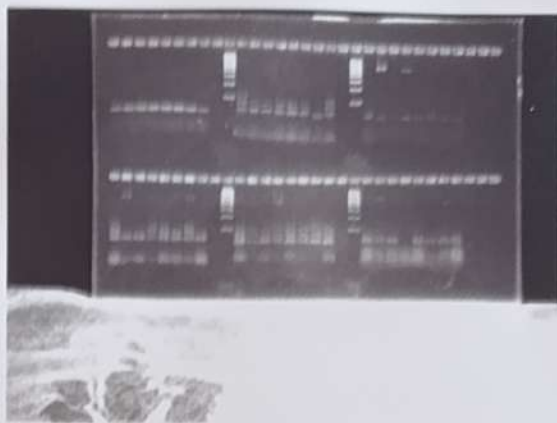
20M ✓ 24M ✓ 27M ✓



04+ ✓ A ✓ C ✓

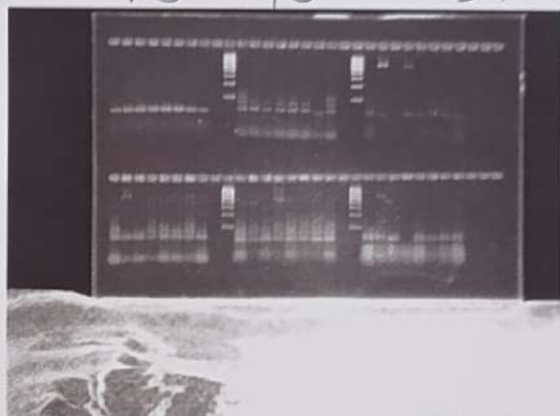


Set
12

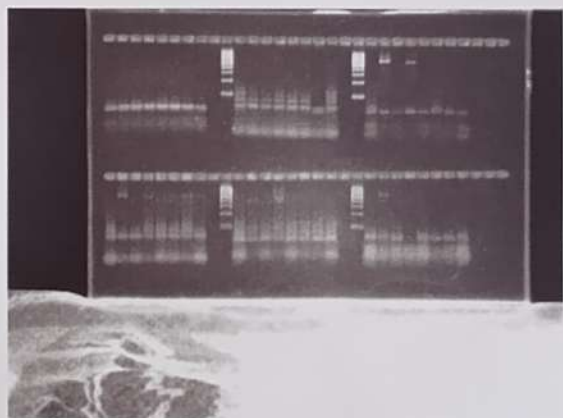


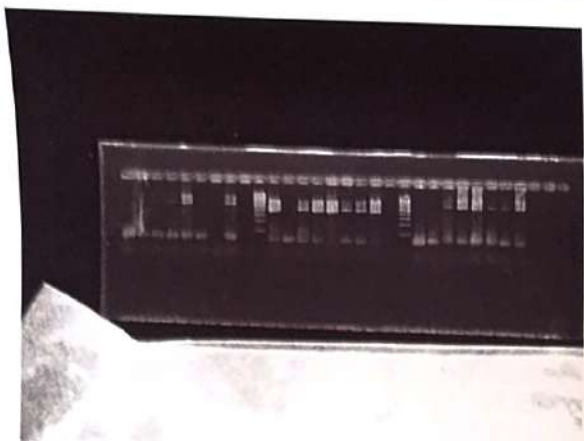
Set
12

16 10 31

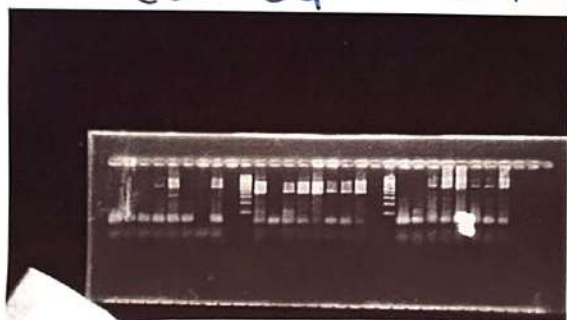


29+ B 34+

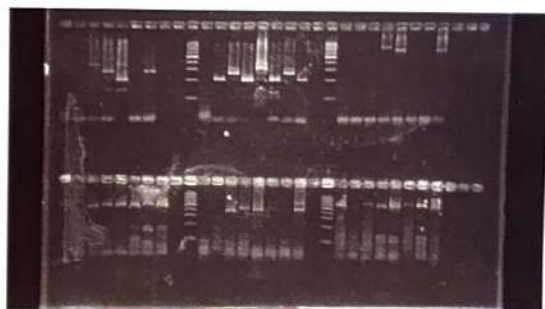
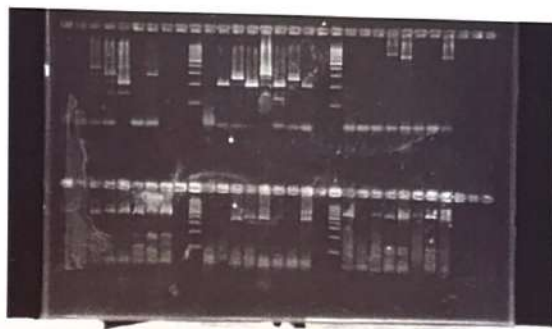
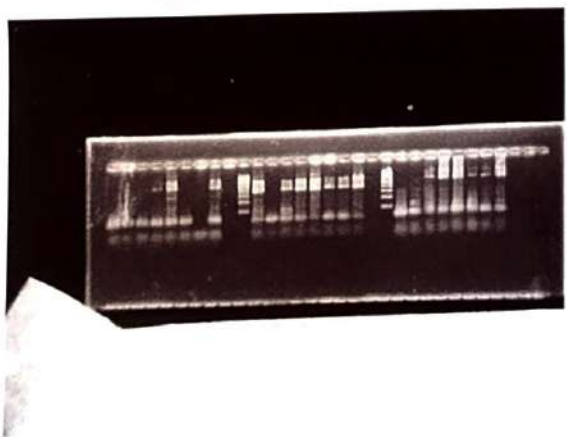
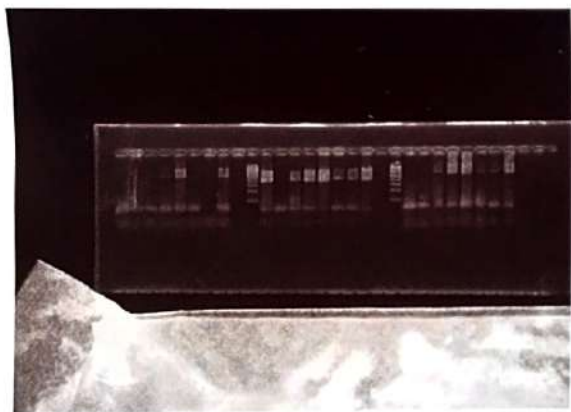




20✓ 24✓ 27✓

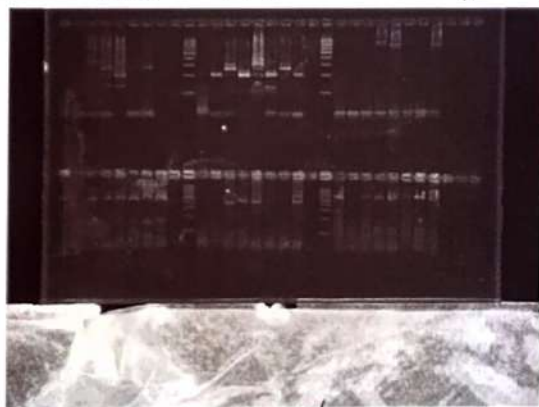


Set 13 Confirmed

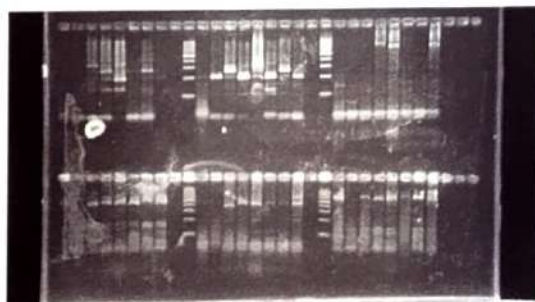


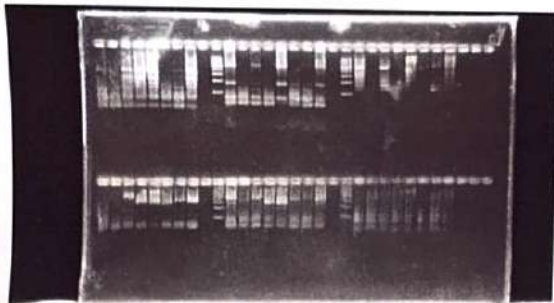
Set 13

116✓ 216✓ 260✓



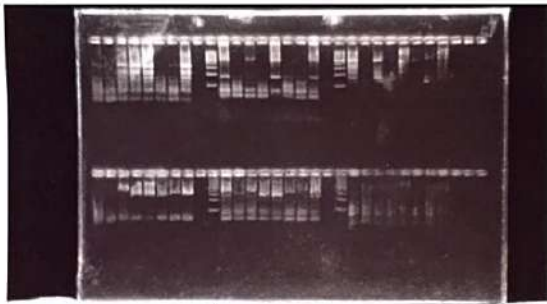
2✓ 23✓ 39✓



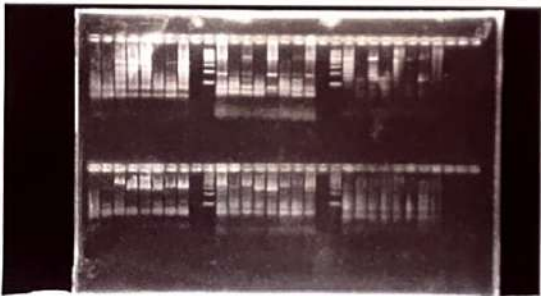
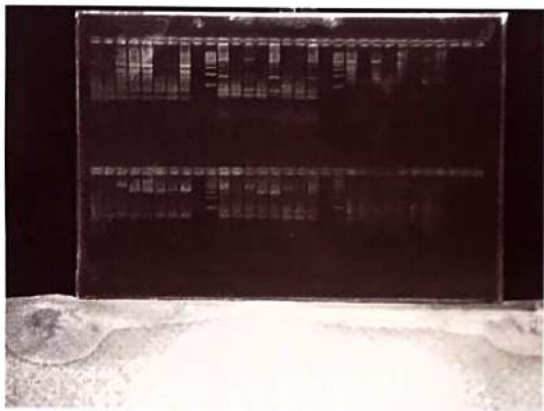


Set 13

4[✓] 26[✓] 40[✓]



30+[✓] 39+[✓] 41CSC[✓]



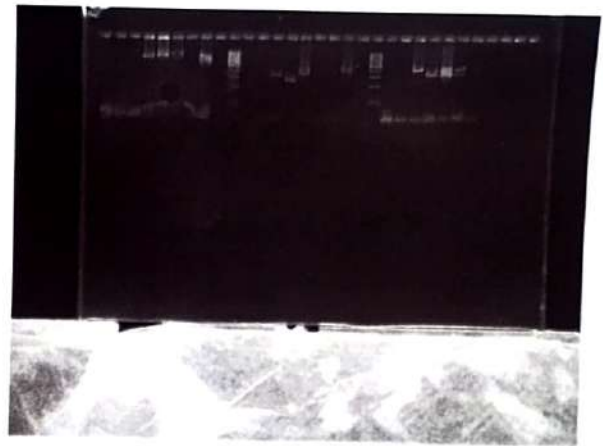
Set 13

10[✓] 16[✓] 34[✓]



29[✓] B[✓] 34 t[✓]





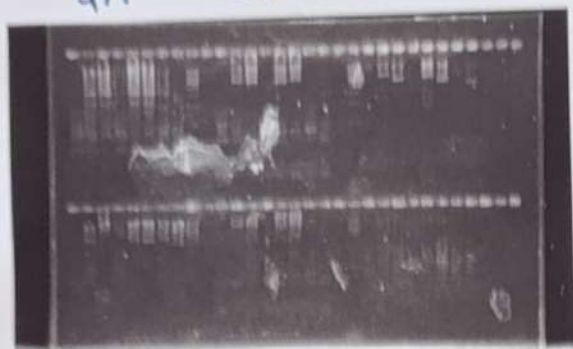
$a_4 t_1^V$ C_1^V A^V



Set 13

Corrections

4M 26 40

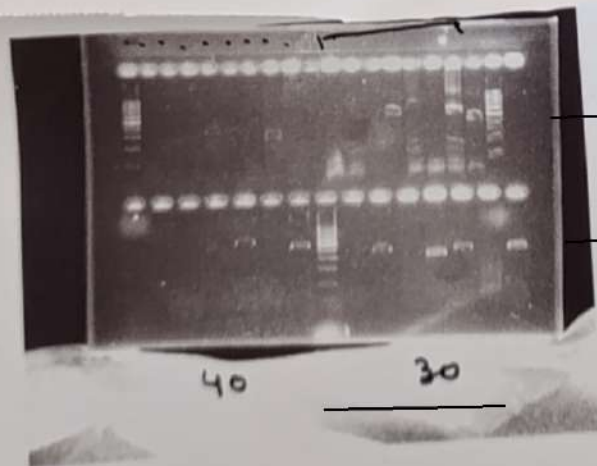
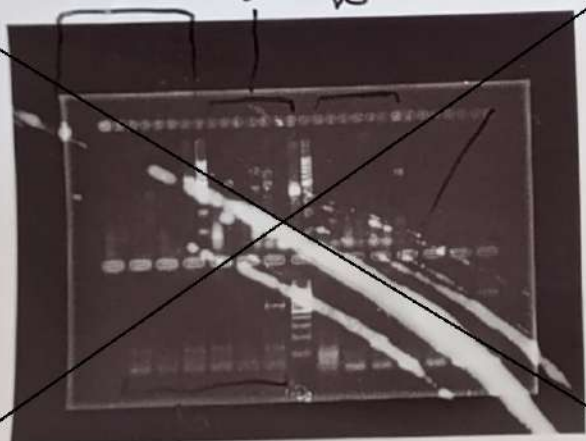


30f 39f 4186c

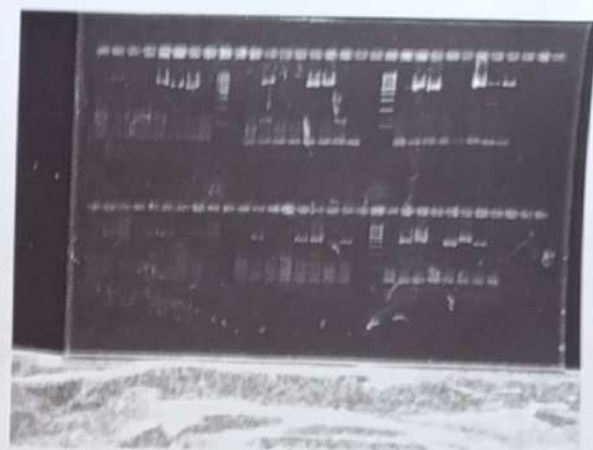
Set 14



4186c
4186e 29 40

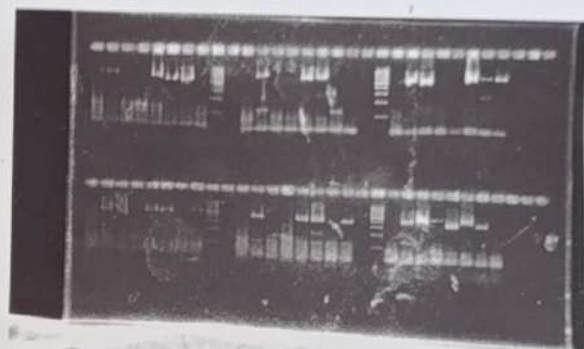


40 30

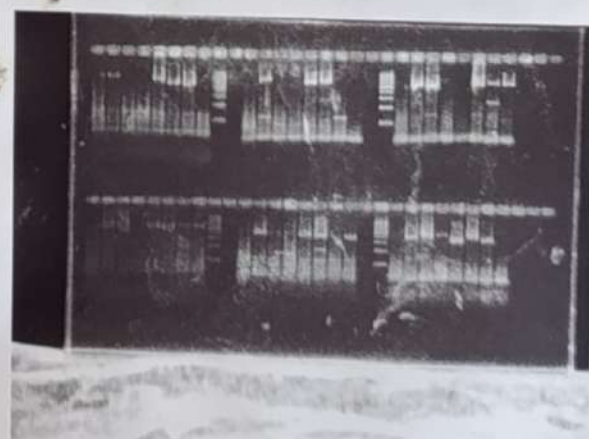
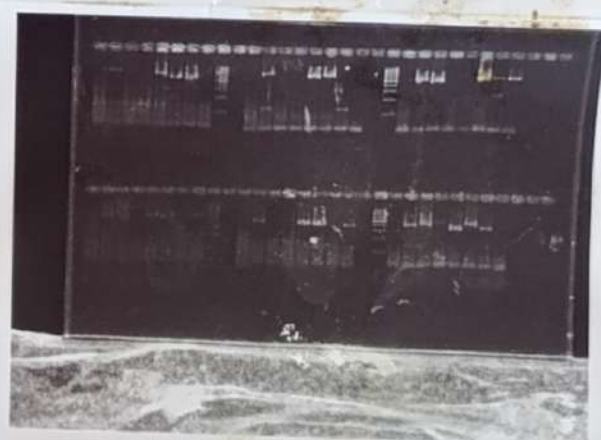


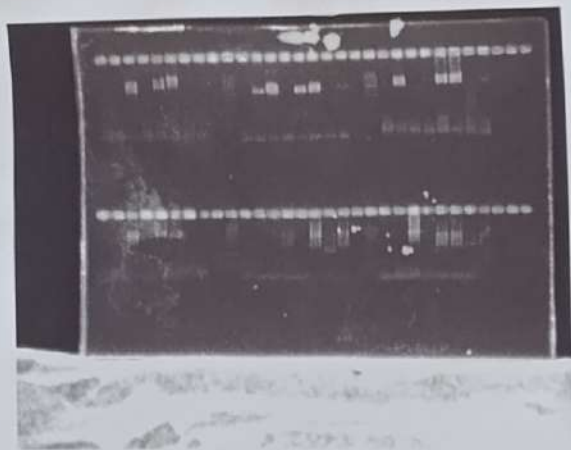
Set 14

10 16 31



29 B 34 t





Set
14



Set 14

20 24 27



04t C A



1 2GM4 6 11
2 7
3 8
4 9
5 10

