

1 **Table S1** Reaction system of quinocetone in gel electrophoresis under aerobic
2 conditions

Content	1	2	3	4	5	6	7	8	9	10
DNA (μL)	2	2	2	2	2	2	2	2	2	2
X (μL)	-	2	2	2	2	2	2	2	2	2
XO (μL)	-	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
QCT (μL)	-	-	-	4	4	4	-	-	-	-
TPZ (μL)	-	-	2	-	-	-	-	-	2	2
SOD (μL)	-	-	-	-	-	5	5	-	5	-
DMSO (μL)	-	-	-	-	4	-	-	4	-	4
Tris (μL)	2	2	2	2	2	2	2	2	2	2
H ₂ O (μL)	16	10.5	8.5	6.5	2.5	1.5	5.5	6.5	3.5	4.5
Total (μL)	20	20	20	20	20	20	20	20	20	20

3 *Note:* X, xanthine; XO, xanthine oxidase; QCT, quinocetone; TPZ, tirapazamine;
4 DMSO, dimethyl sulfoxide

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11 **Table S2** Reaction system of quinocetone in gel electrophoresis in low oxygen
 12 condition

Content	1	2	3	4	5	6	7	8	9	10
DNA (μL)	2	2	2	2	2	2	2	2	2	2
X (μL)	-	2	2	2	2	2	2	2	-	2
XO (μL)	-	3.5	3.5	3.5	3.5	3.5	3.5	3.5	-	3.5
QCT (μL)	-	-	-	-	-	-	2	2	2	2
TPZ (μL)	-	-	-	-	2	2	-	-	-	-
SOD (μL)	-	-	5	-	-	-	-	-	-	5
DMSO (μL)	-	-	-	4	-	4	-	4	-	-
Tris (μL)	2	2	2	2	2	2	2	2	2	2
H ₂ O (μL)	16	10.5	5.5	6.5	8.5	4.5	8.5	4.5	14	3.5
Total (μL)	20	20	20	20	20	20	20	20	20	20

13 *Note:* X, xanthine; XO, xanthine oxidase; QCT, quinocetone; TPZ, tirapazamine;

14 DMSO, dimethyl sulfoxide

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