

CERTIFICATE OF ACCREDITATION

MACROGEN

Accreditation No. : KT737

Corporation Registration No. : 110111-1423576

Address of (Branch site) 254, Beotkkot-ro, Geumcheon-gu, Seoul, Republic of
Laboratory : Korea

Date of Initial Accreditation : March 03, 2017

Validity of Accreditation : March 05, 2021 ~ March 04, 2025

Scope of Accreditation : Attached Annex

Date of issue : February 16, 2023

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme

No. KT737

10. Forensic Science Testing

10.004 DNA-type testing

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MG-I-08-01:2022	Human DNA	Genotyping Method of human 24 A-STR loci 1. D8S1179 2. D21S11 3. D7S820 4. CSF1PO 5. D3S1358 6. TH01 7. D13S317 8. D16S539 9. D2S1338 10. D19S433 11. vWA 12. TPOX 13. D18S51 14. Amelogenin 15. D5S818 16. FGA 17. D1S1656 18. Penta E 19. Penta D 20. D12S391 21. D2S441 22. D10S1248 23. SE33 24. D22S1045	Qualitative analysis	BS	N
MG-I-08-02:2022	Human DNA	Haplotyping Method of human 22 Y-STR loci 1. DYS456 2. DYS389 I 3. DYS390 4. DYS389 II 5. DYS458 6. DYS19 7. DYS385 8. DYS393 9. DYS391 10. DYS439 11. DYS635 12. DYS392 13. Y_GATA_H4 14. DYS437 15. DYS438 16. DYS448 17. DYS576 18. DYS481 19. DYS549 20. DYS533 21. DYS570 22. DYS643	Qualitative analysis	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MG-I-08-03:2019	Human DNA	Sequence analysis of human mtDNA hypervariable region (HV1 & HV2)	Qualitative analysis	BS	N
MG-I-08-05:2022	Microbial DNA	16s rRNA/ITS region Sequence Analysis	Qualitative analysis	BS	N

End.