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NEW PSYCHOACTIVE SUBSTANCES - PRESUMPTIVE COLOUR TESTS

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Acknowledgement

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Foreword

Simple color test reactions (presumptive test) may be an important element of the harm reduction among NPS users. They can use such test (at home or at NGO points) and this way screen, if the compound which they have in possession is the compound which they think it is, or it is something else. Anyhow, presumptive color tests can only give an indication of which type of substance could be present - but they can't specifically and unambiguously identify the substance.

Several commercially available and laboratory made testing kits have been tested. Finally, a commercial testing kit which includes Marquis¹, Mandelin¹, Mecke¹, Libermann¹, Froehde² and Gallic acid¹ reagent was applied. Test kits applied for taking the photos presented in this booklet were purchased from a UK based company SafeTest 4 <https://www.safetest4.co.uk/>.

In the booklet photos on presumptive tests of several classes of new psychoactive compounds are presented. At the top row the names of the applied reagents are shown. The reagent blank color (no reaction – tested substance was yet not added to the reagent) is shown. In the rows below photos of color development (reagent + substance) at the reaction times of 2, 10, 20, 60 and 120 seconds, respectively are shown for each reagent.

The identities of all compound presented in this booklet have been chemically confirmed by instrumental analyses performed in the framework of the project RESPONSE. Characterizations strategies are presented at the RESPONSE project WEB site:

<http://www.policija.si/eng/index.php/generalpolicedirectorate/1669-nfl-page-response> (English)

Important notice: A positive test result for a particular substance does not mean that the sample really contains this particular compound or that it is completely pure and safe! Color may vary in intensity, hue and saturation. Furthermore, in practice it is dependant also on adulterants or diluents present in “test sample”.

Disclaimer: We do not encourage drug use. RESPONSE presumptive color tests booklet shall be regarded as supporting tool only! We are not responsible for your use of this guide, testing practices, safety and your interpretation of the results. Anything you do is at your own risk.

*Dr. Sonja Klemenc
RESPONSE
Project manager*

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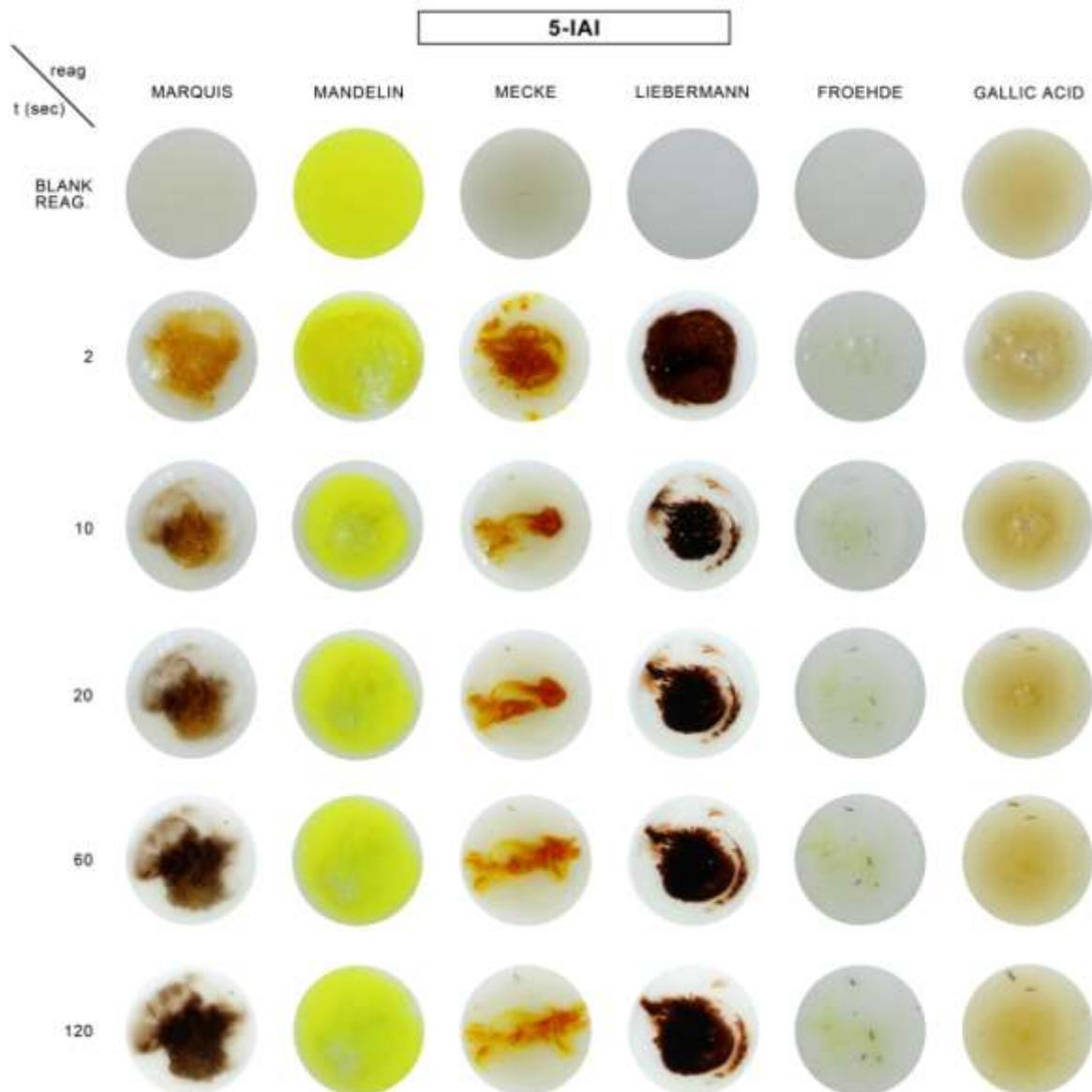
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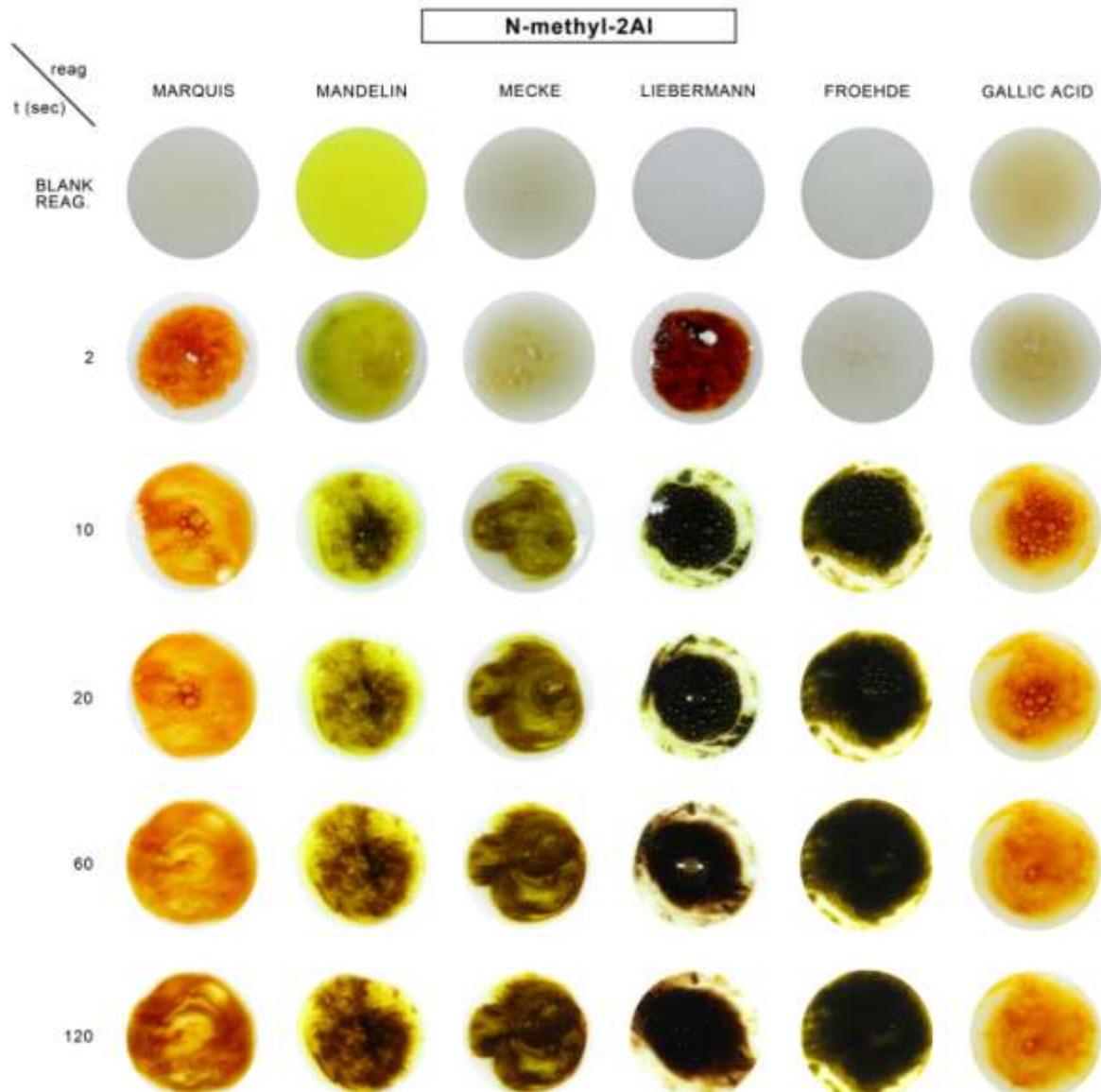
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1. Aminoindanes

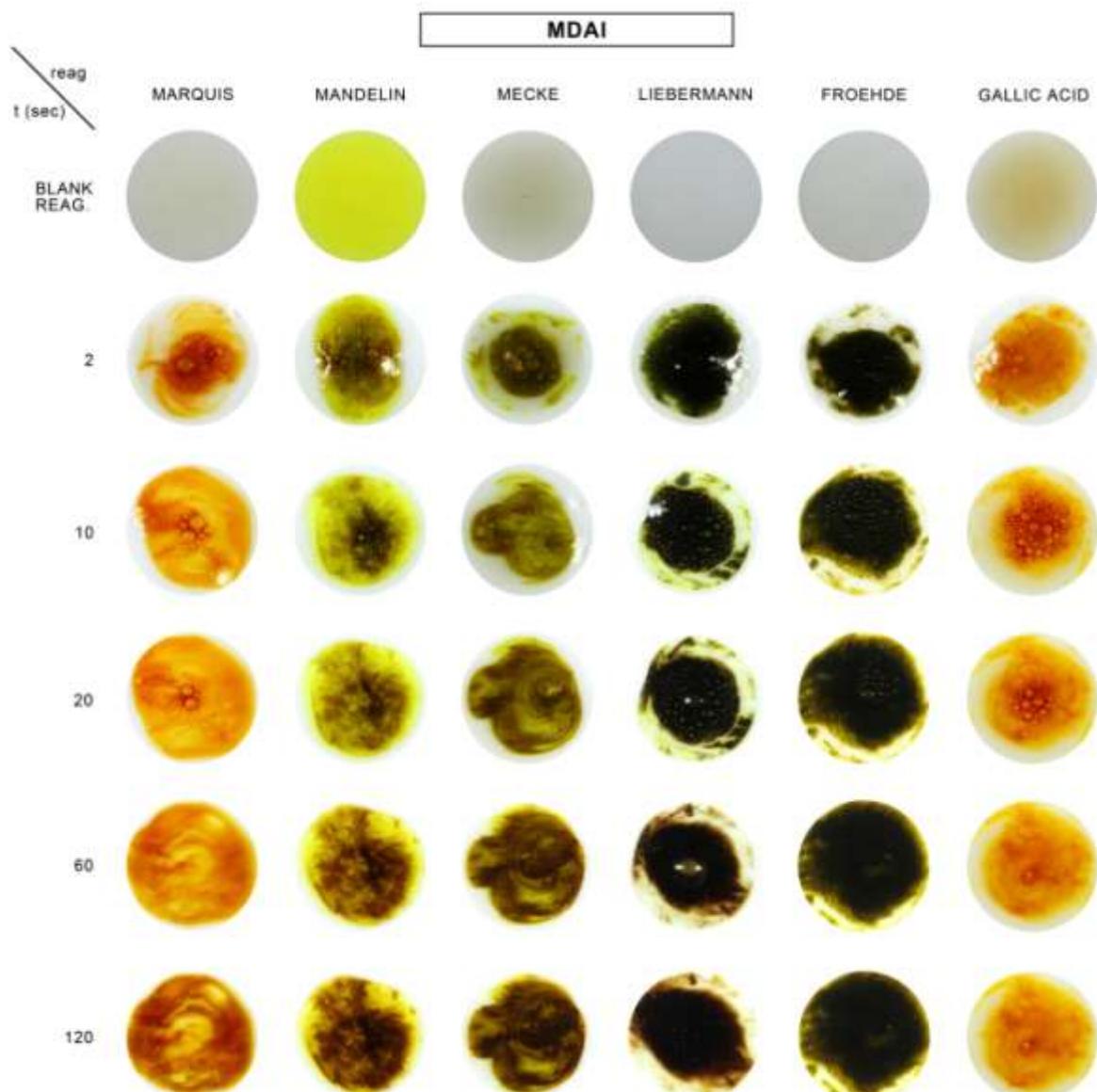
1.1. 5-IAI



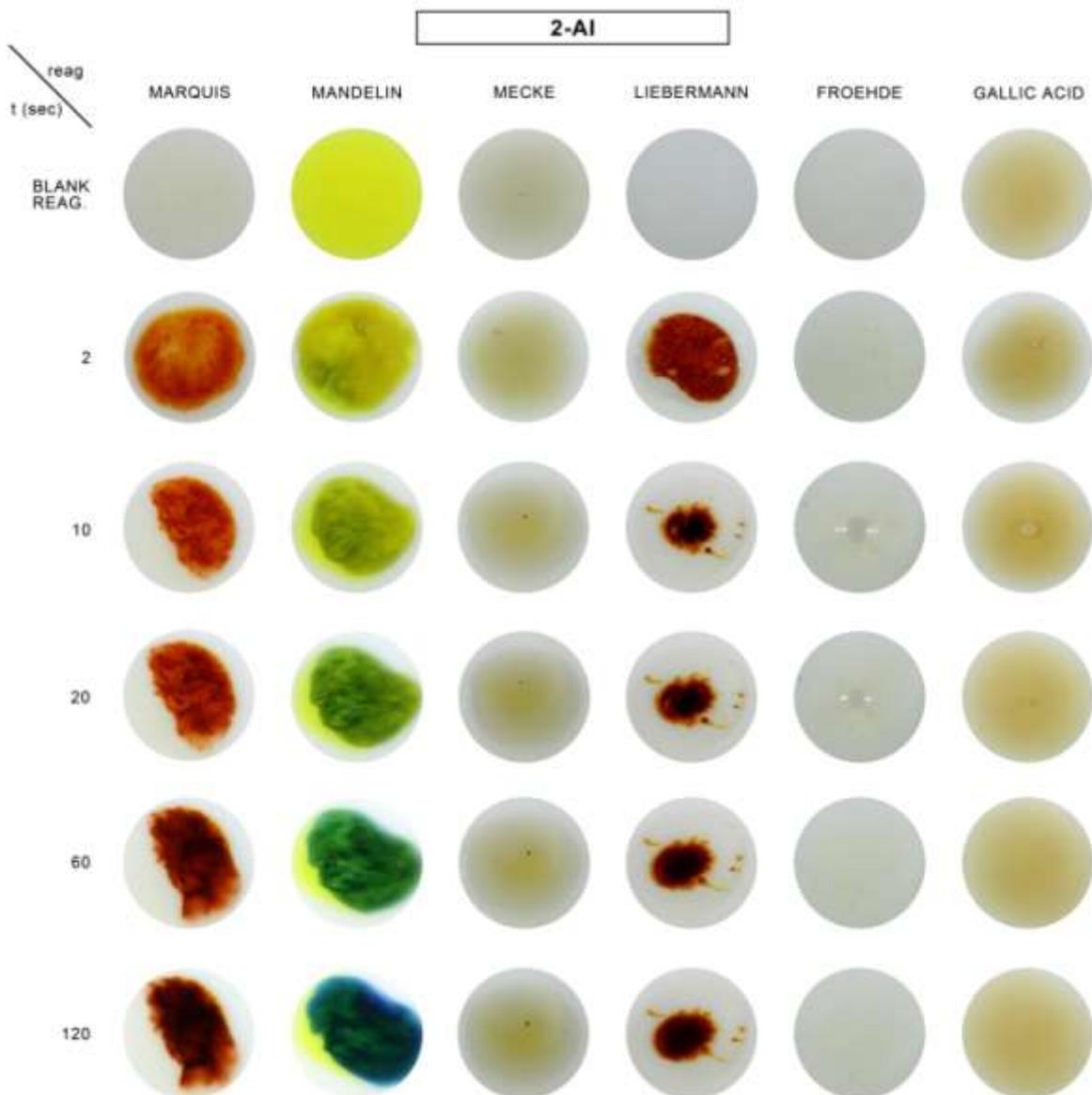
1.2. N-methyl-2Al



1.3. MDAI

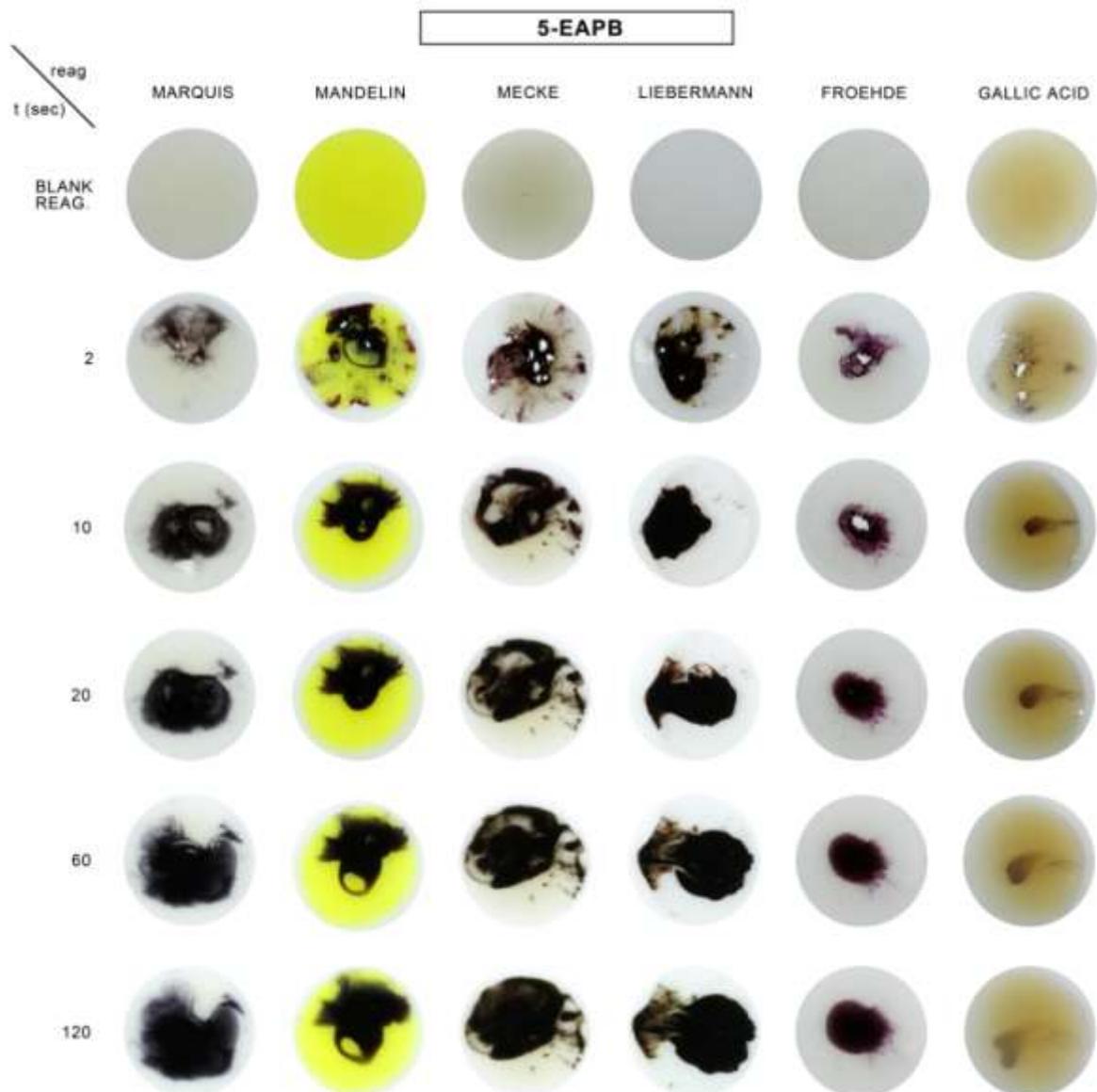


1.4. 2-AI

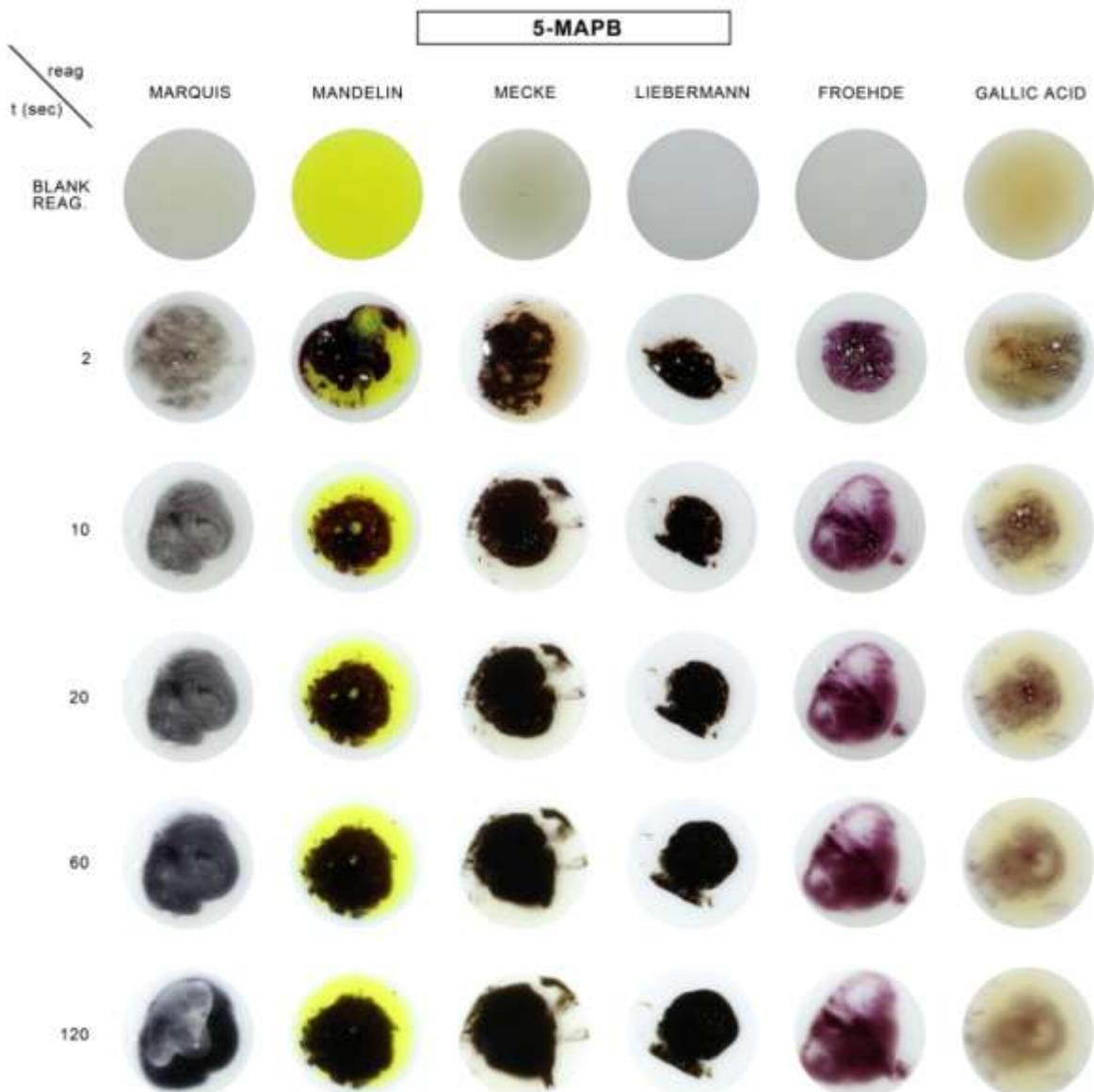


2. Arylalkylamines

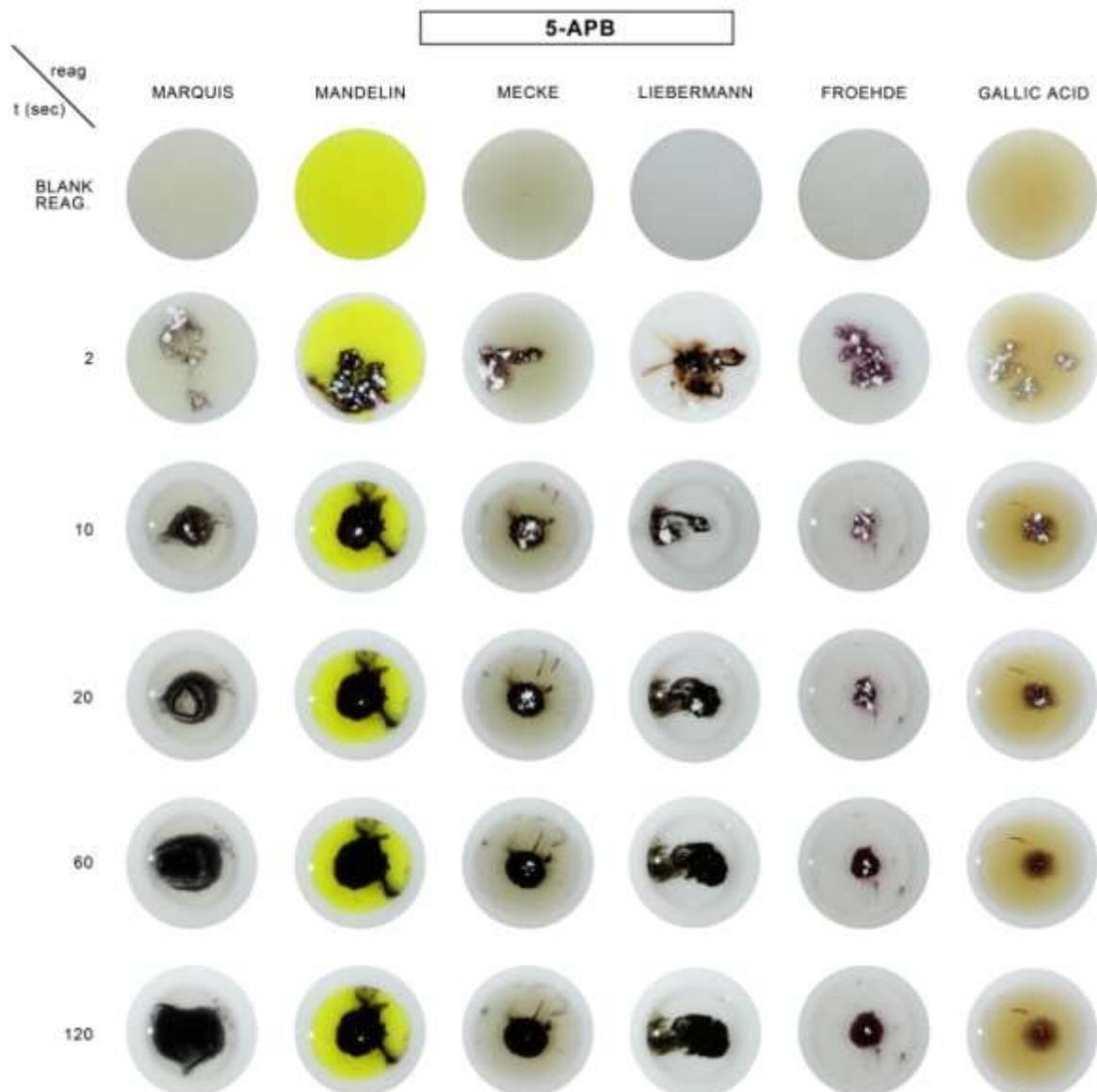
2.1. 5-EAPB



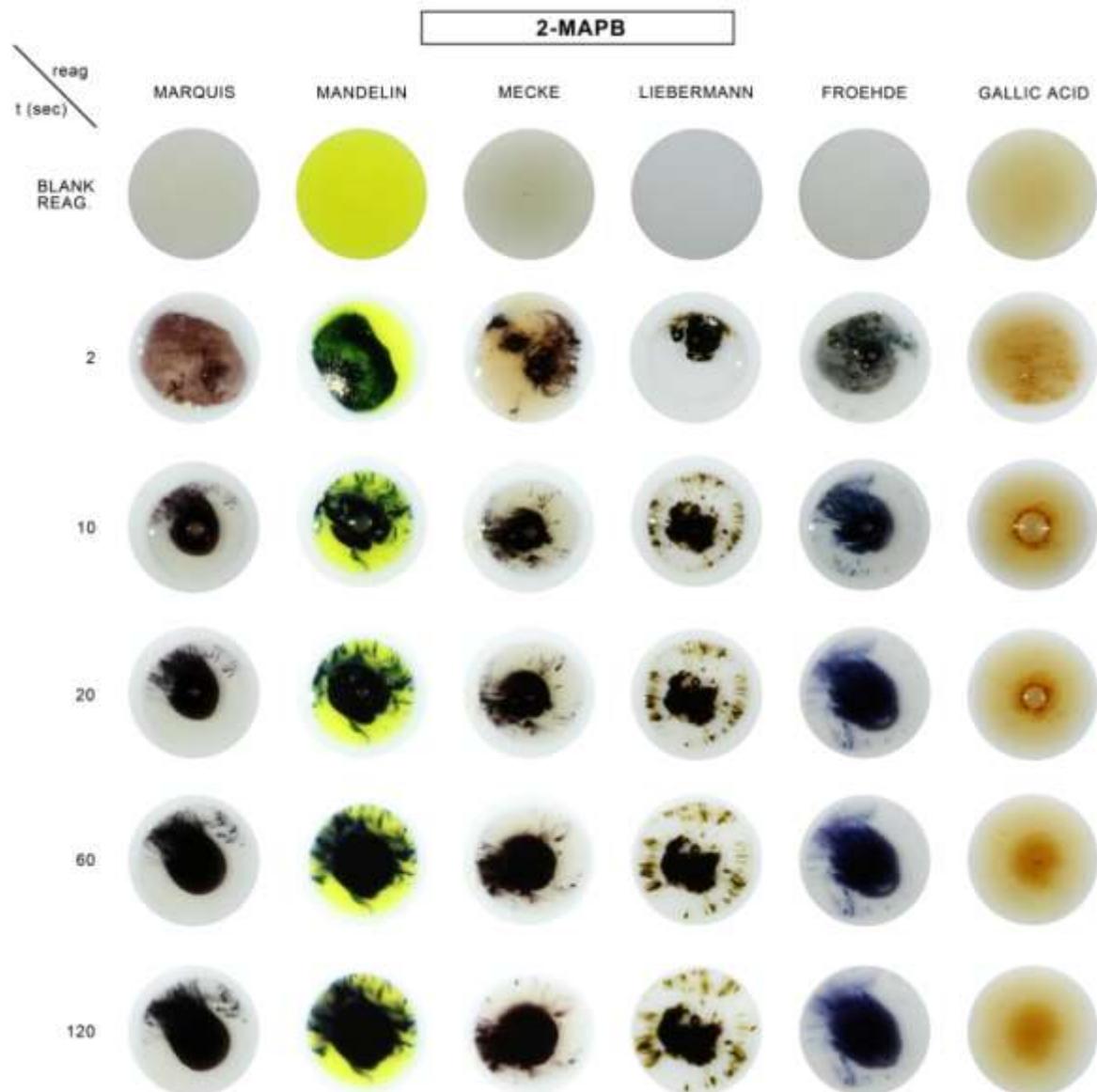
2.2. 5-MAPB



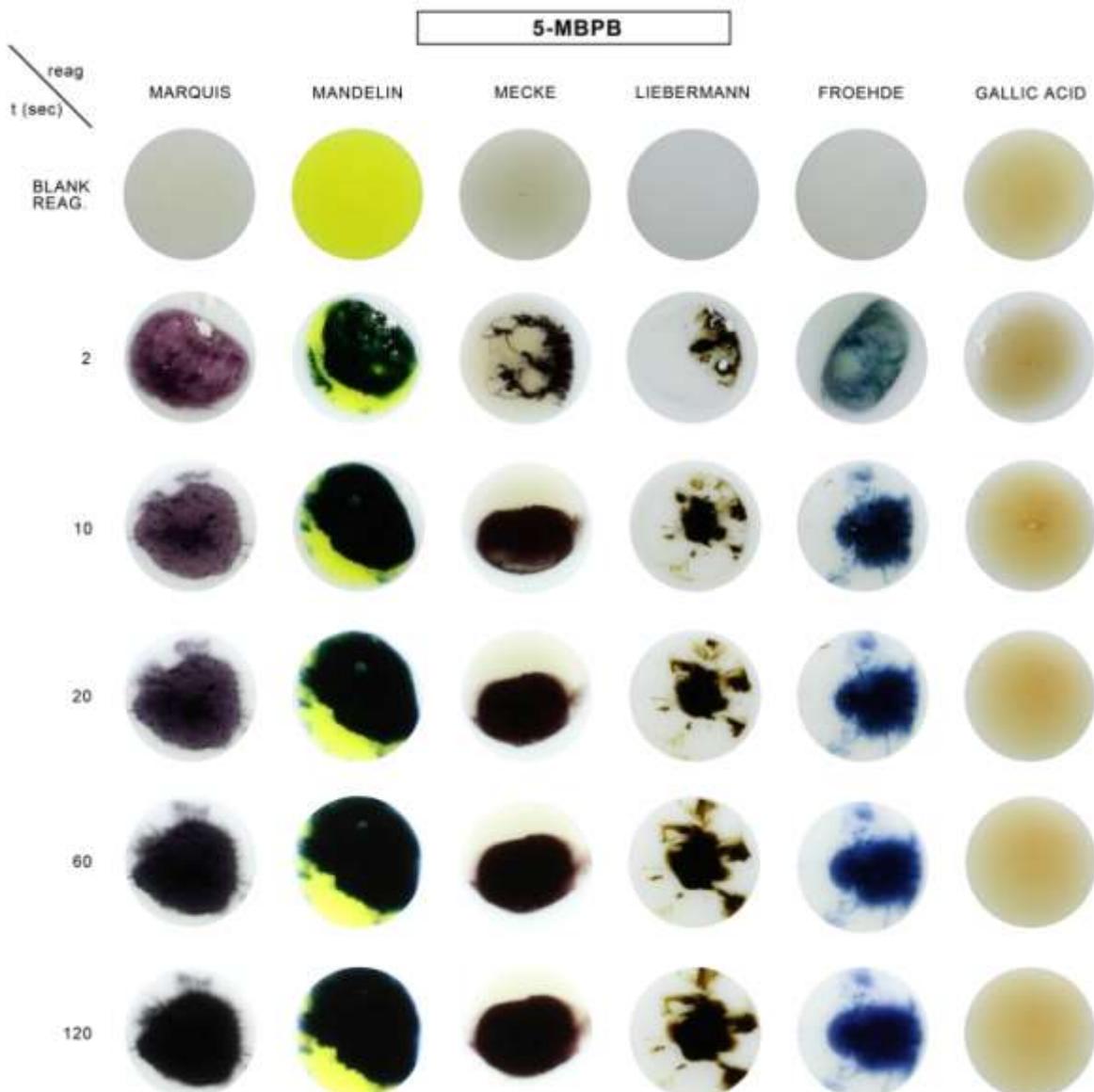
2.3. 5-APB



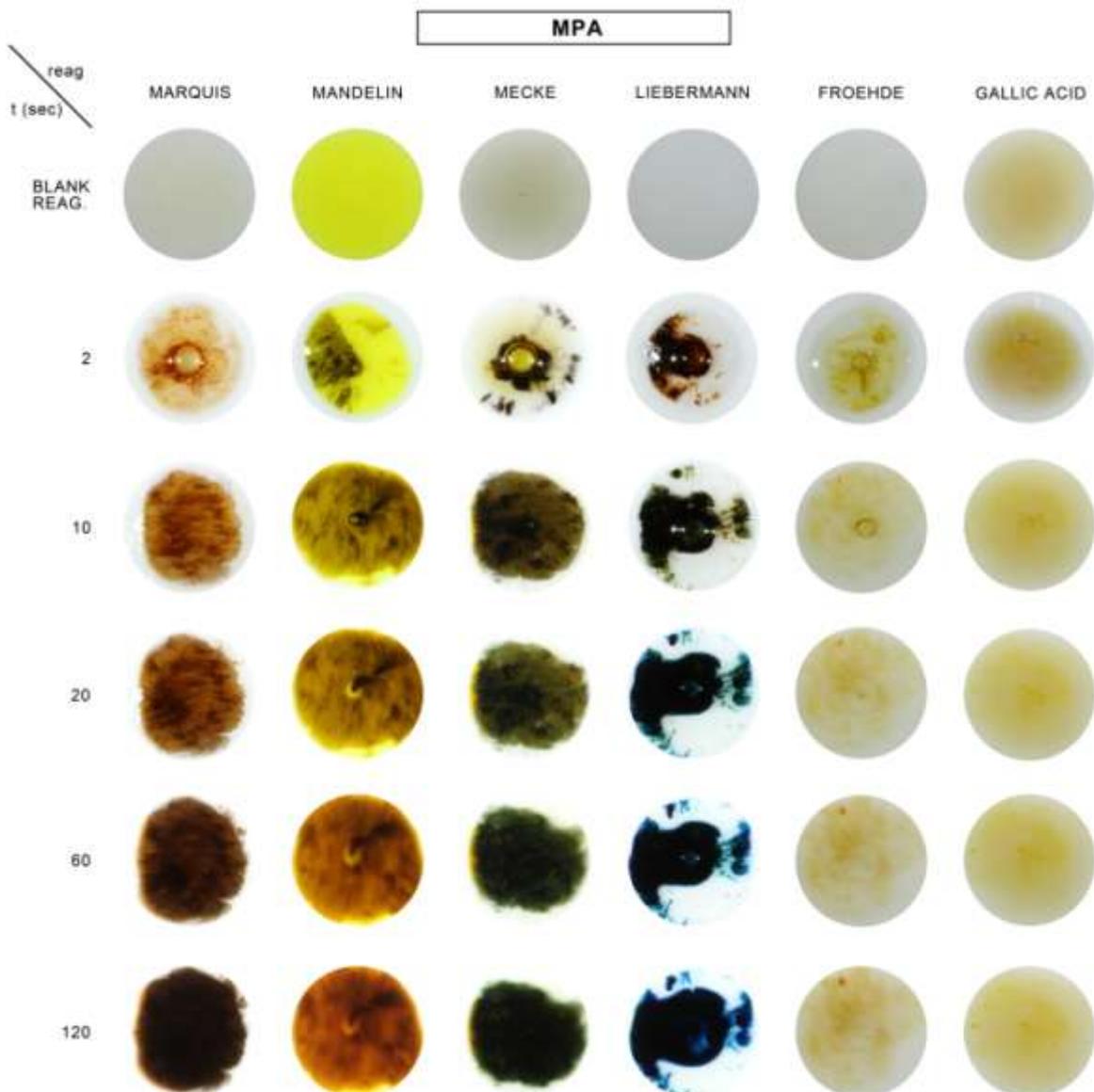
2.4. 2-MAPB



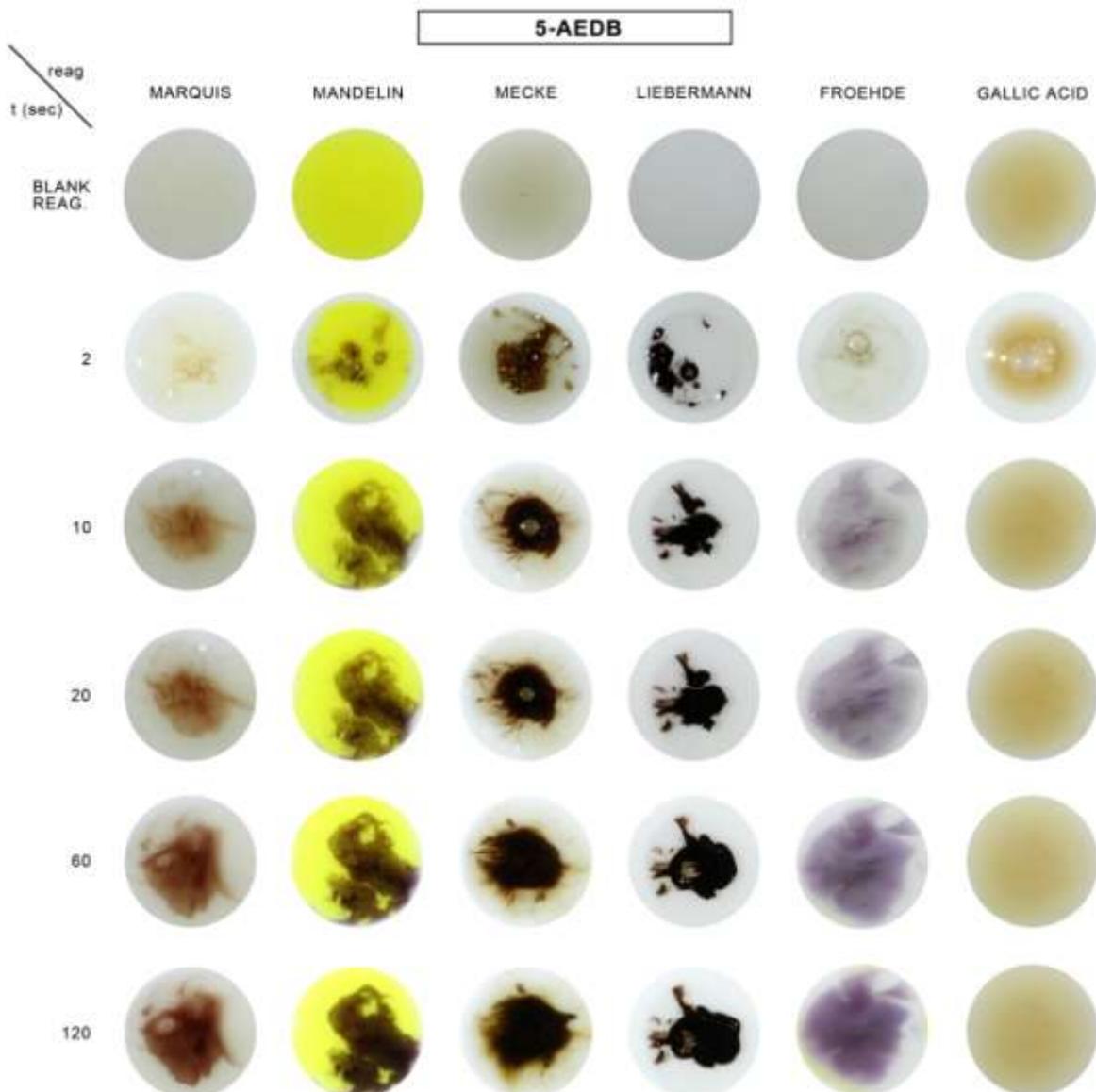
2.5. 5-MBPB



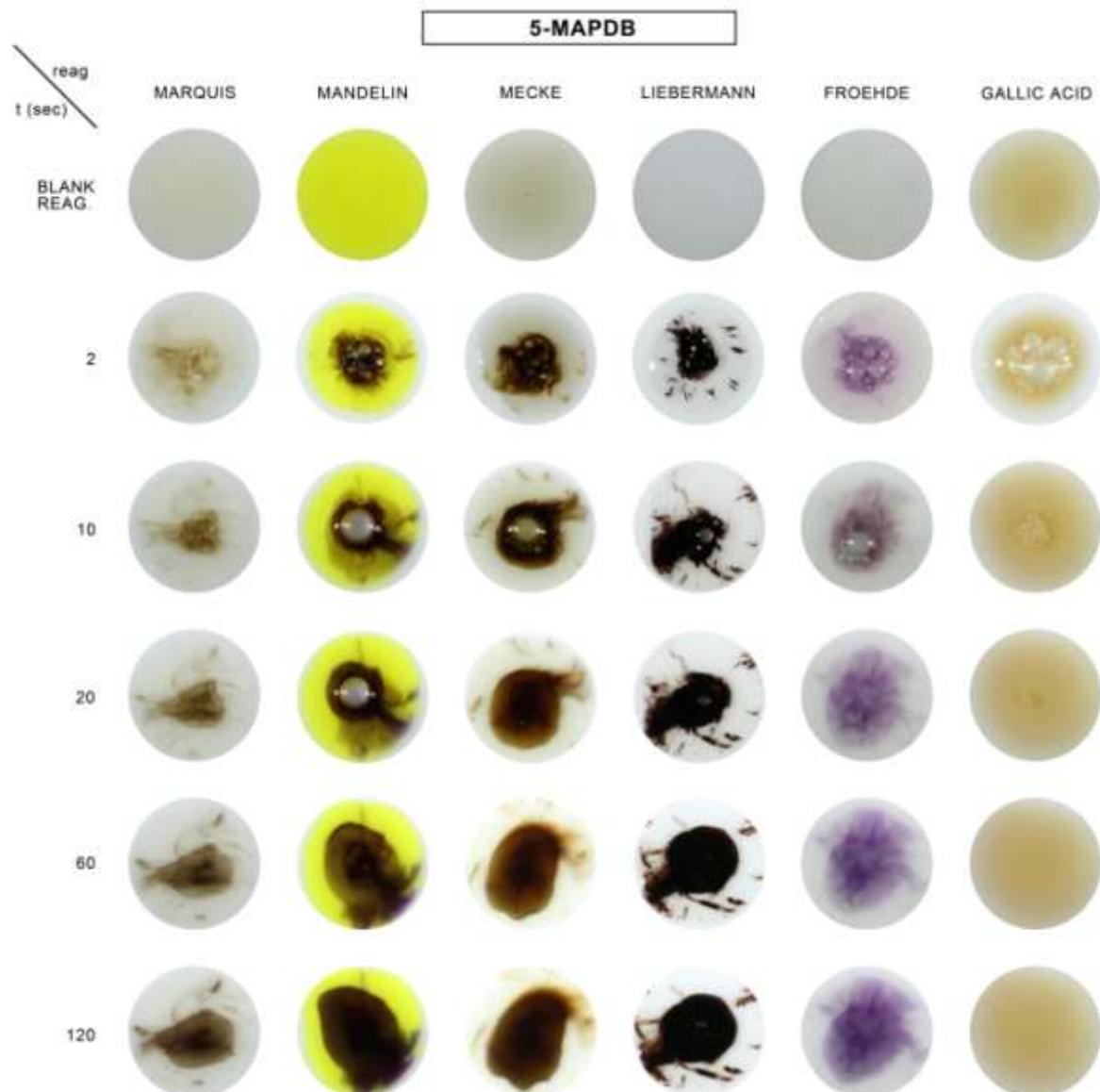
2.6. MPA_Methiopropamine



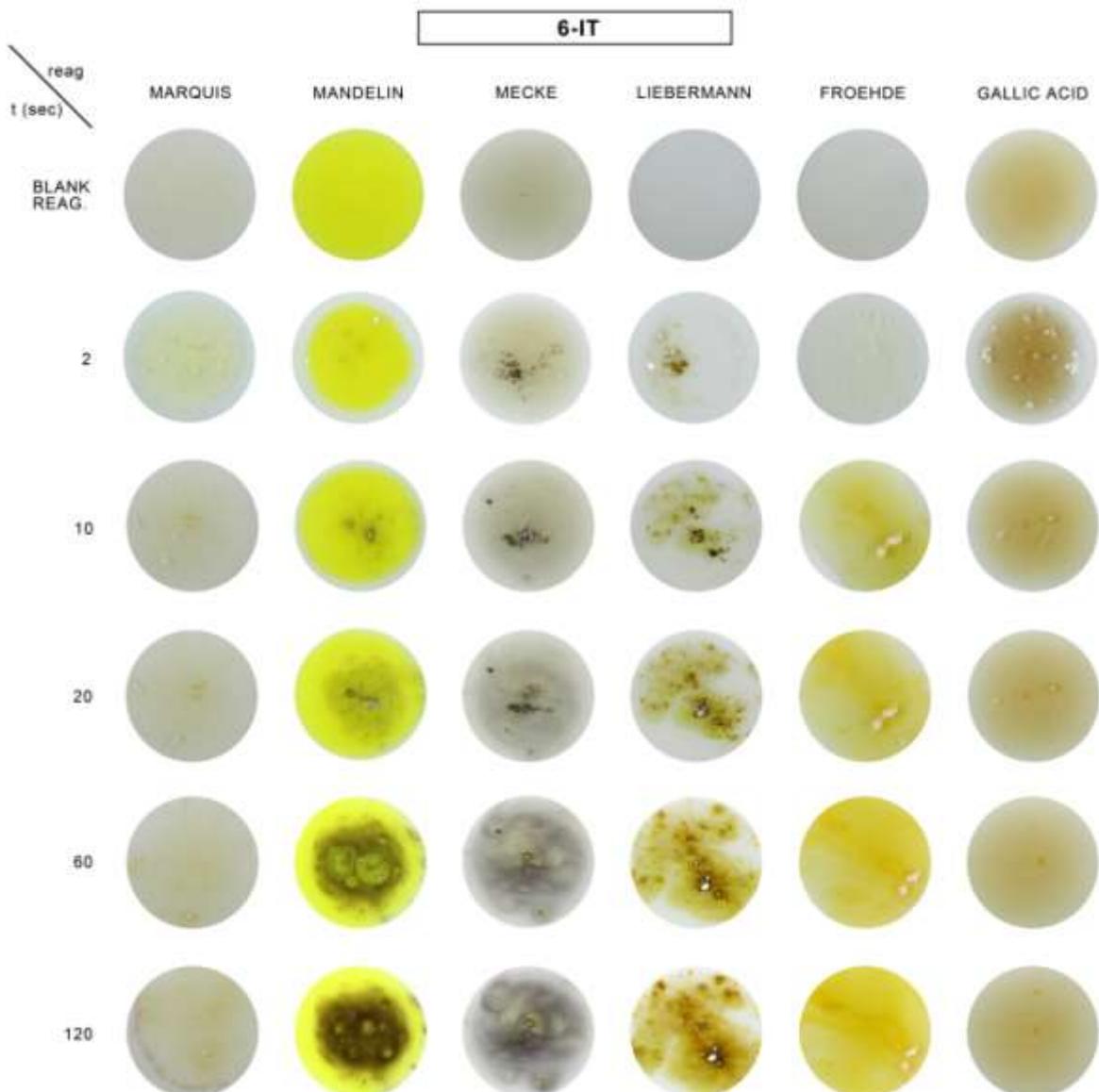
2.7.5-AEDB



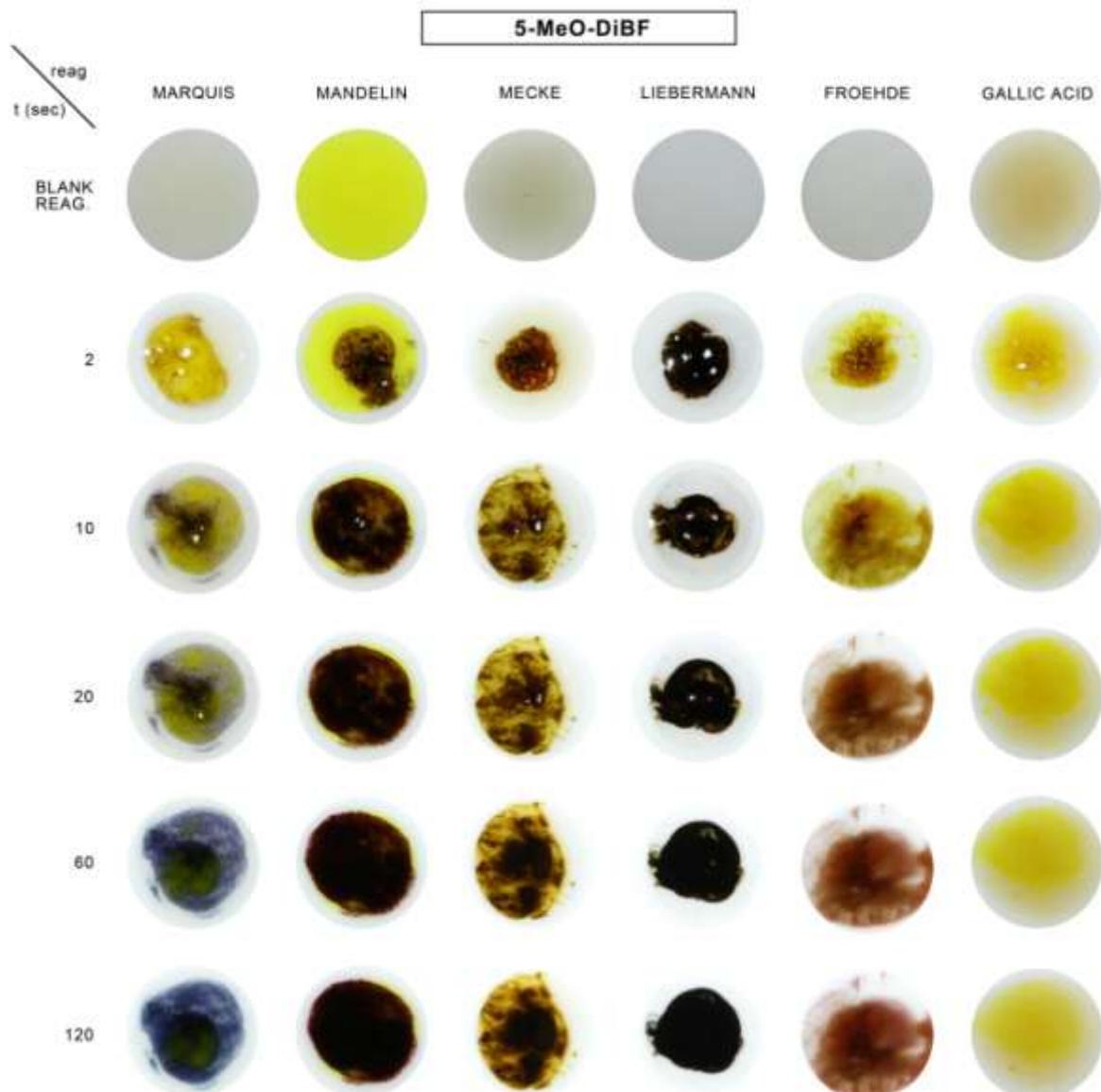
2.8. 5-MAPDB



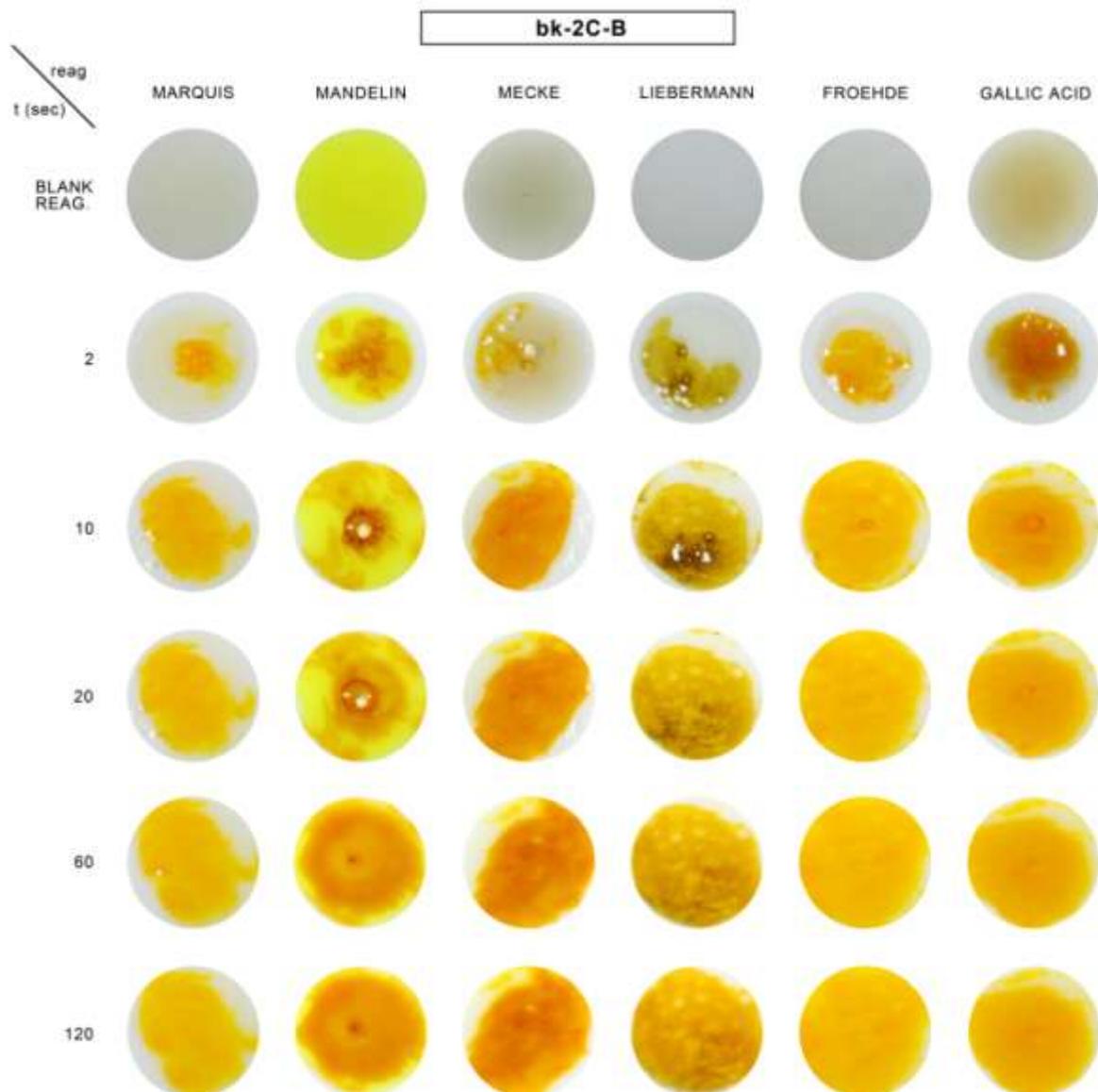
2.9.6-IT



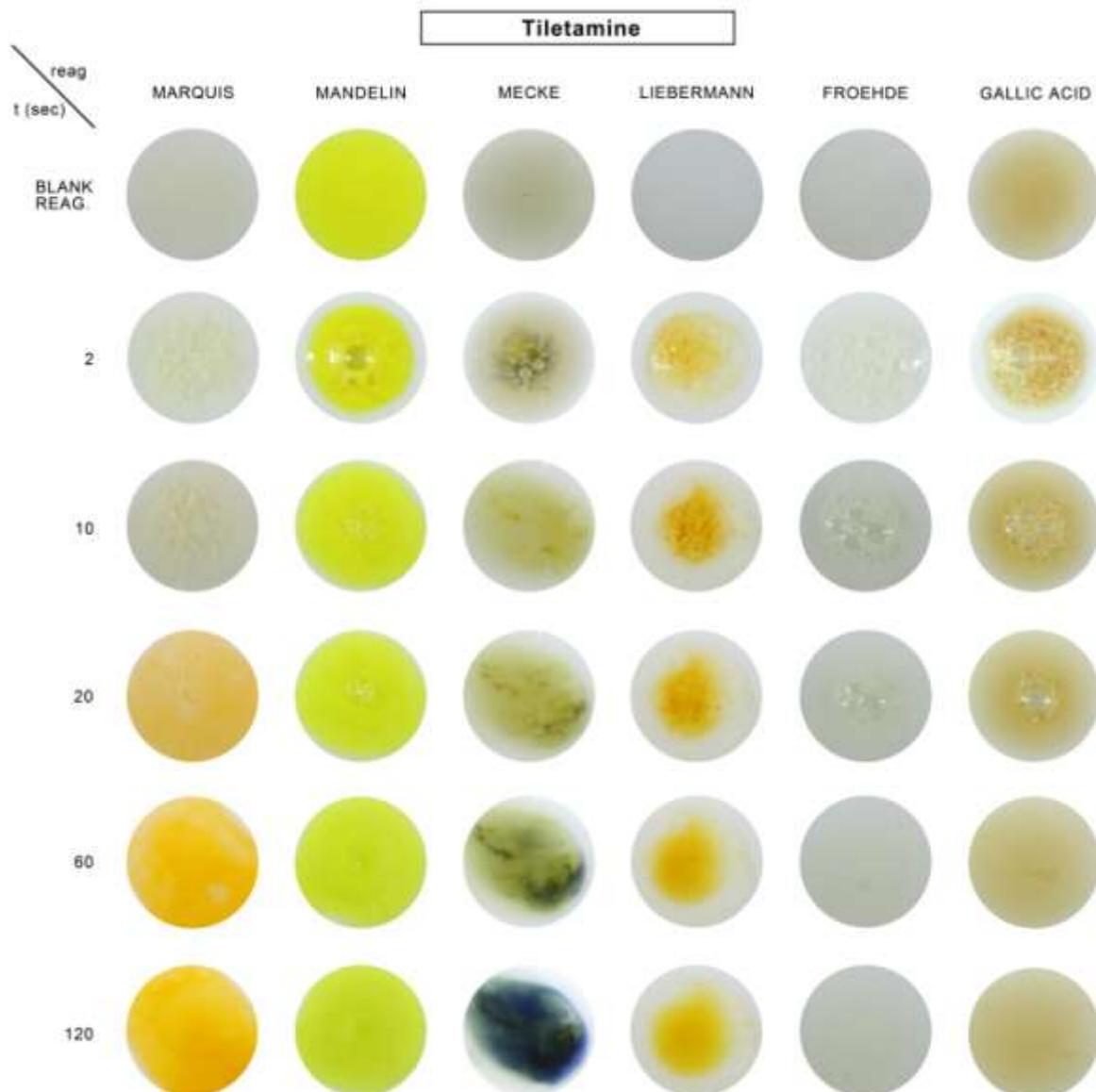
2.10. 5-MeO-DiBF



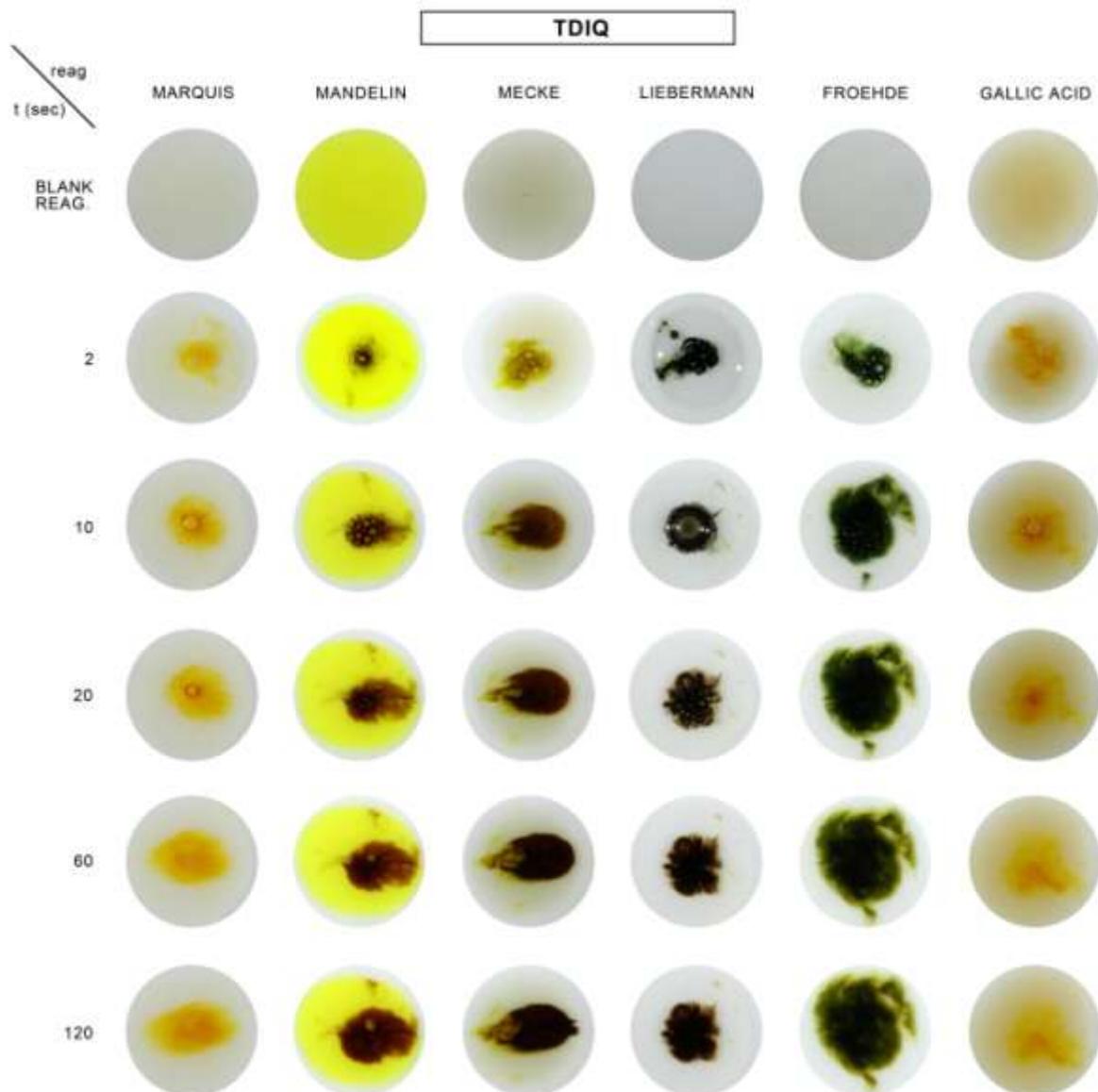
2.11. bk-2C-B



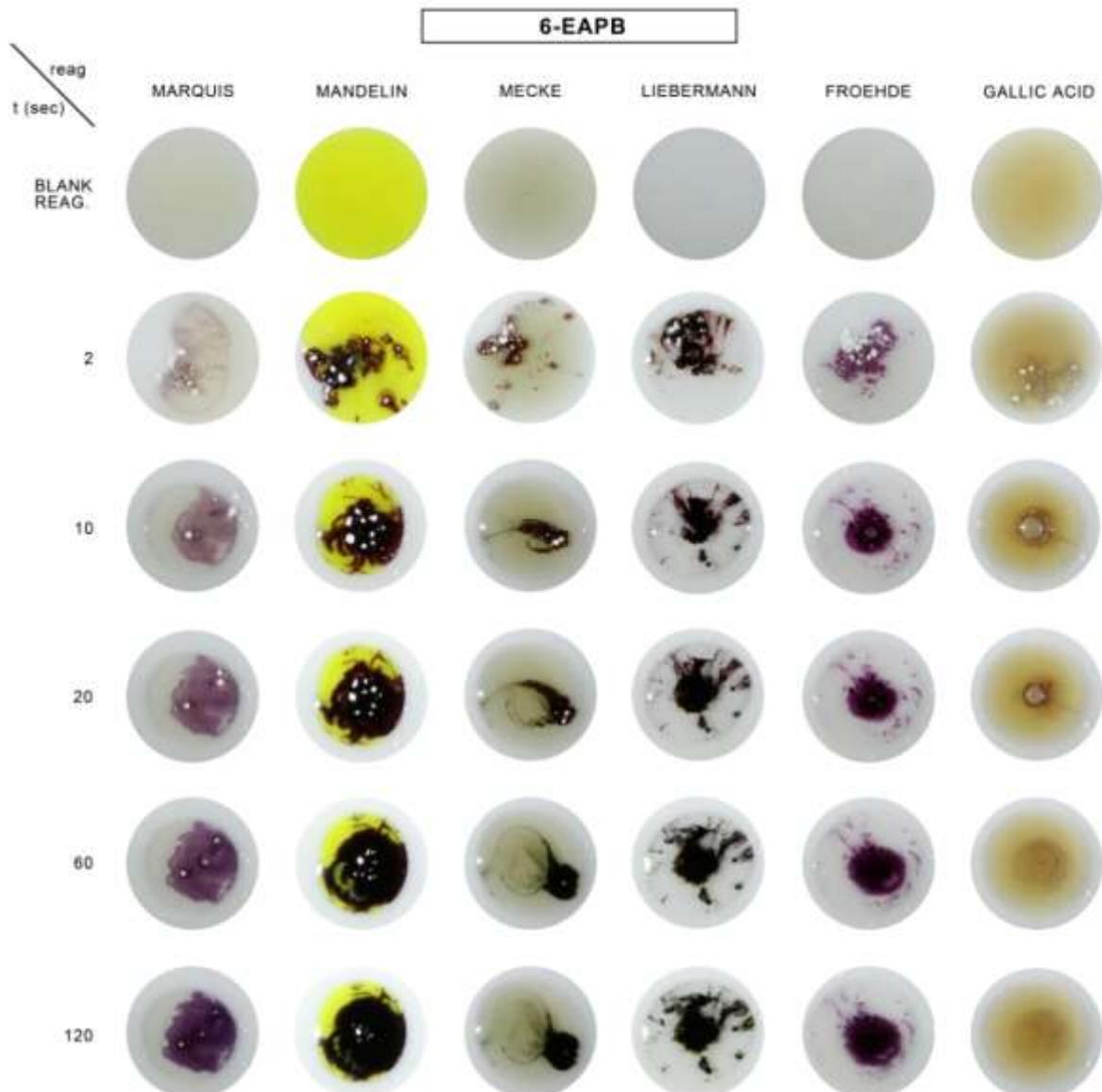
2.12. Tiletamine



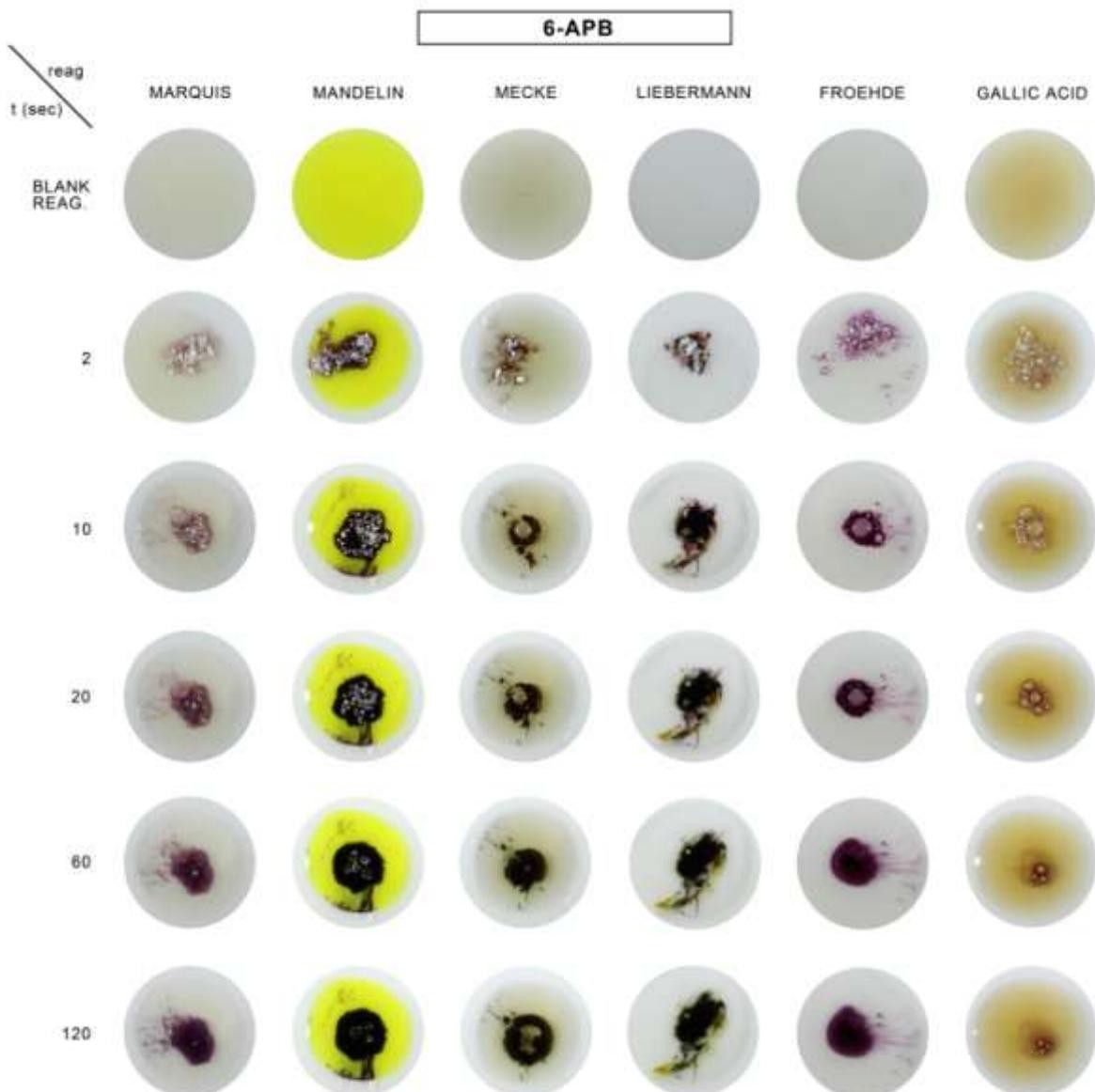
2.13. TDIQ



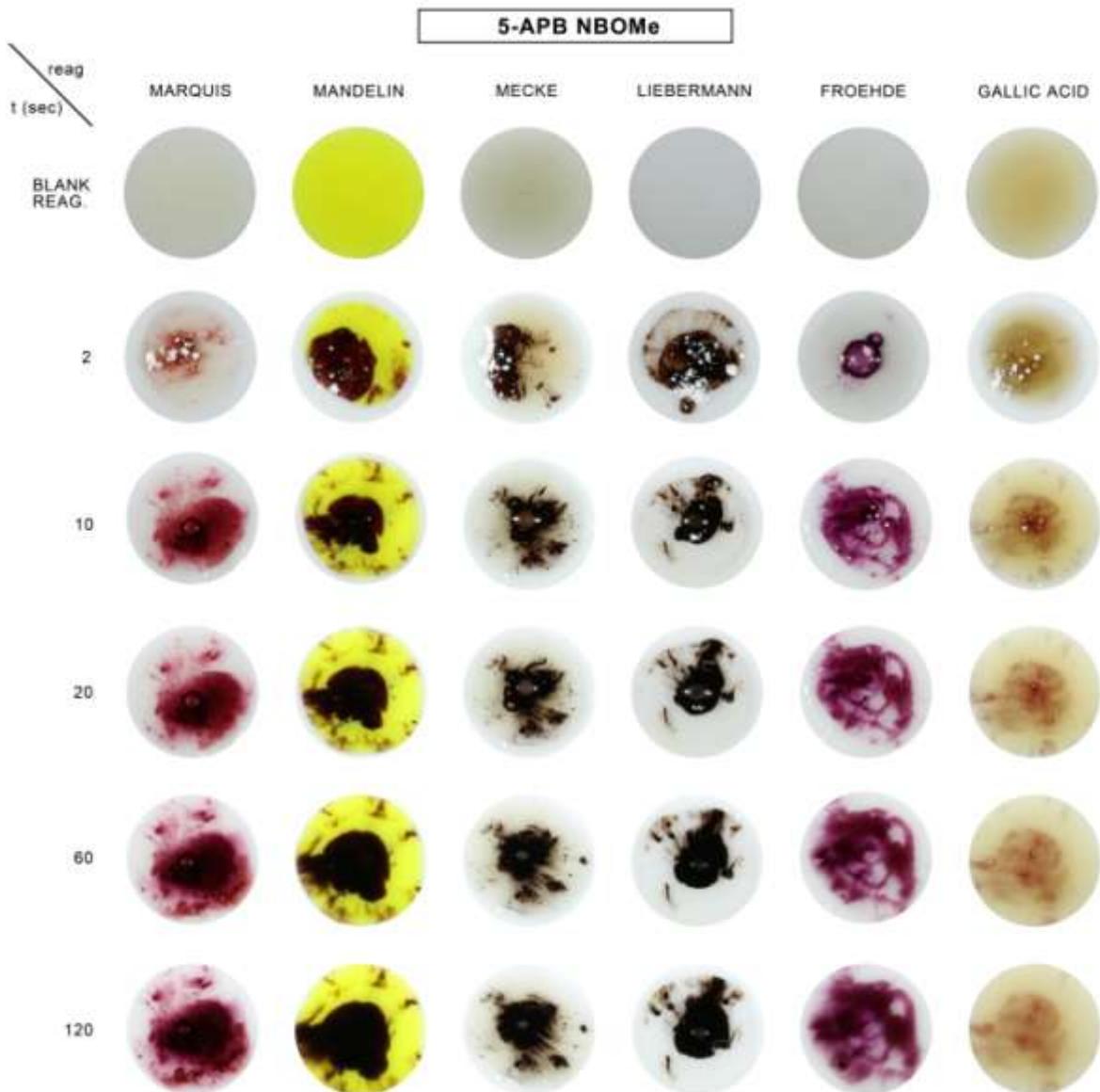
2.14. 6-EAPB



2.15. 6-APB

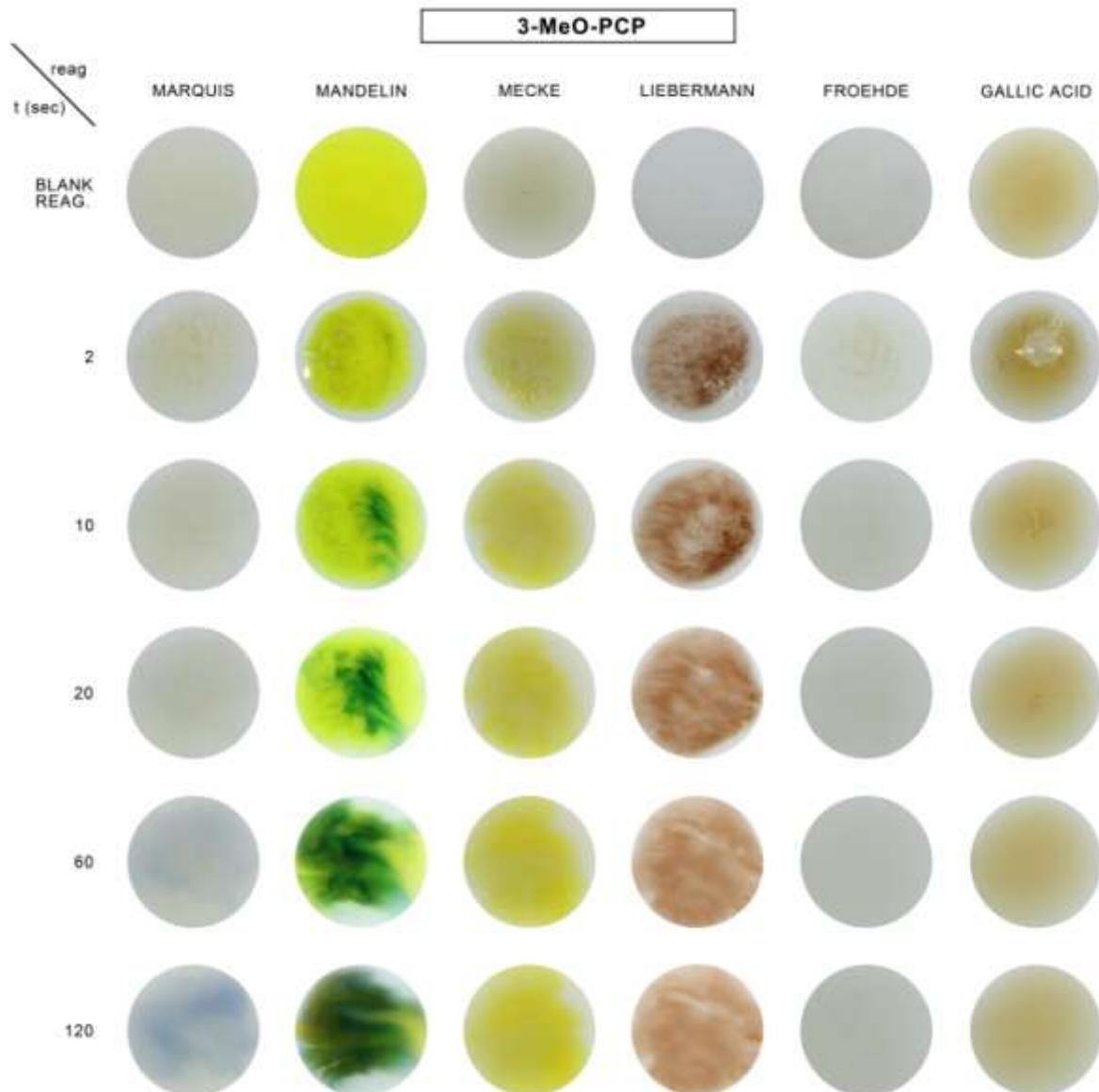


2.16. 5-APB NBOMe

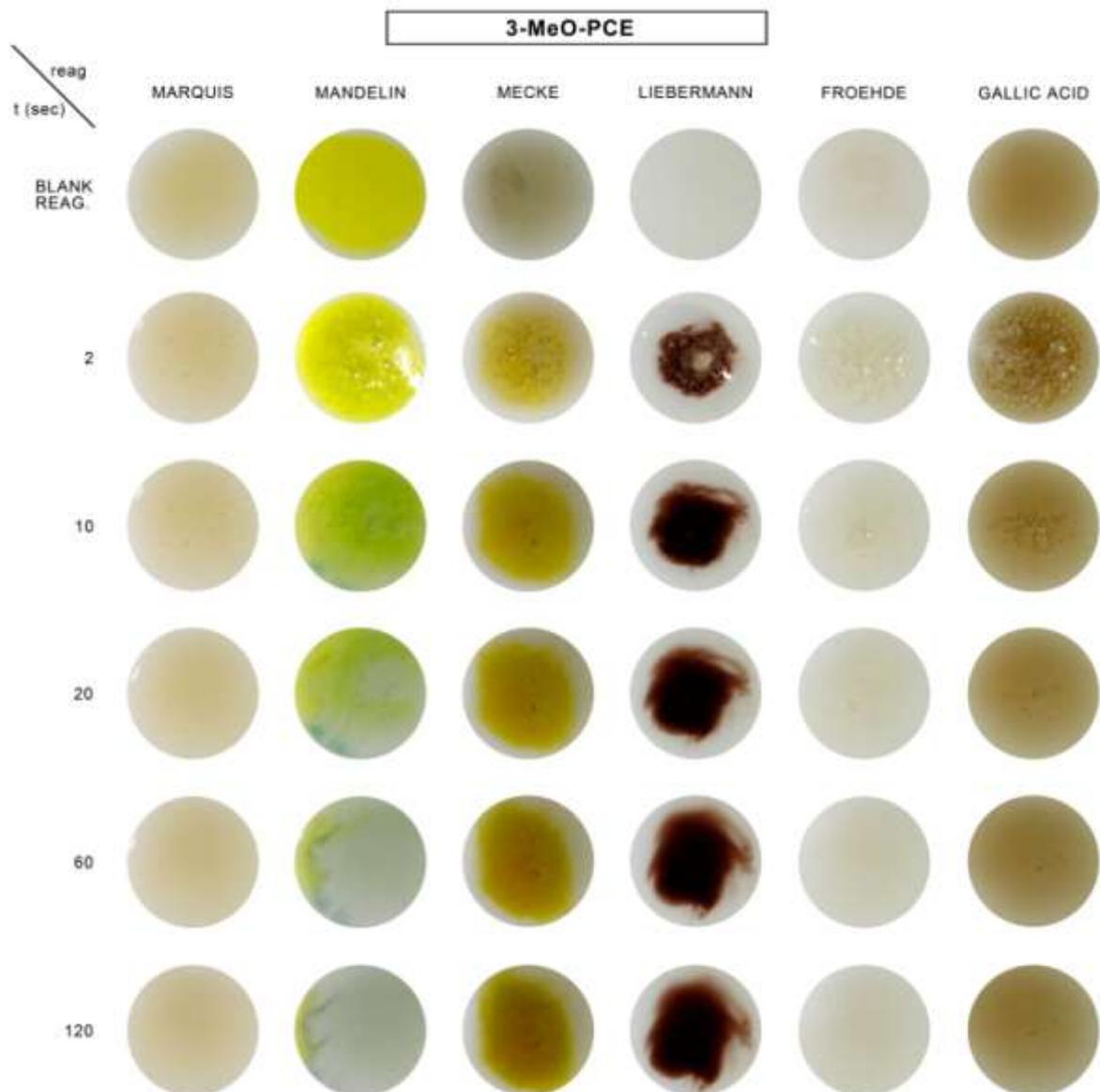


3. Arylcyclohexylamines

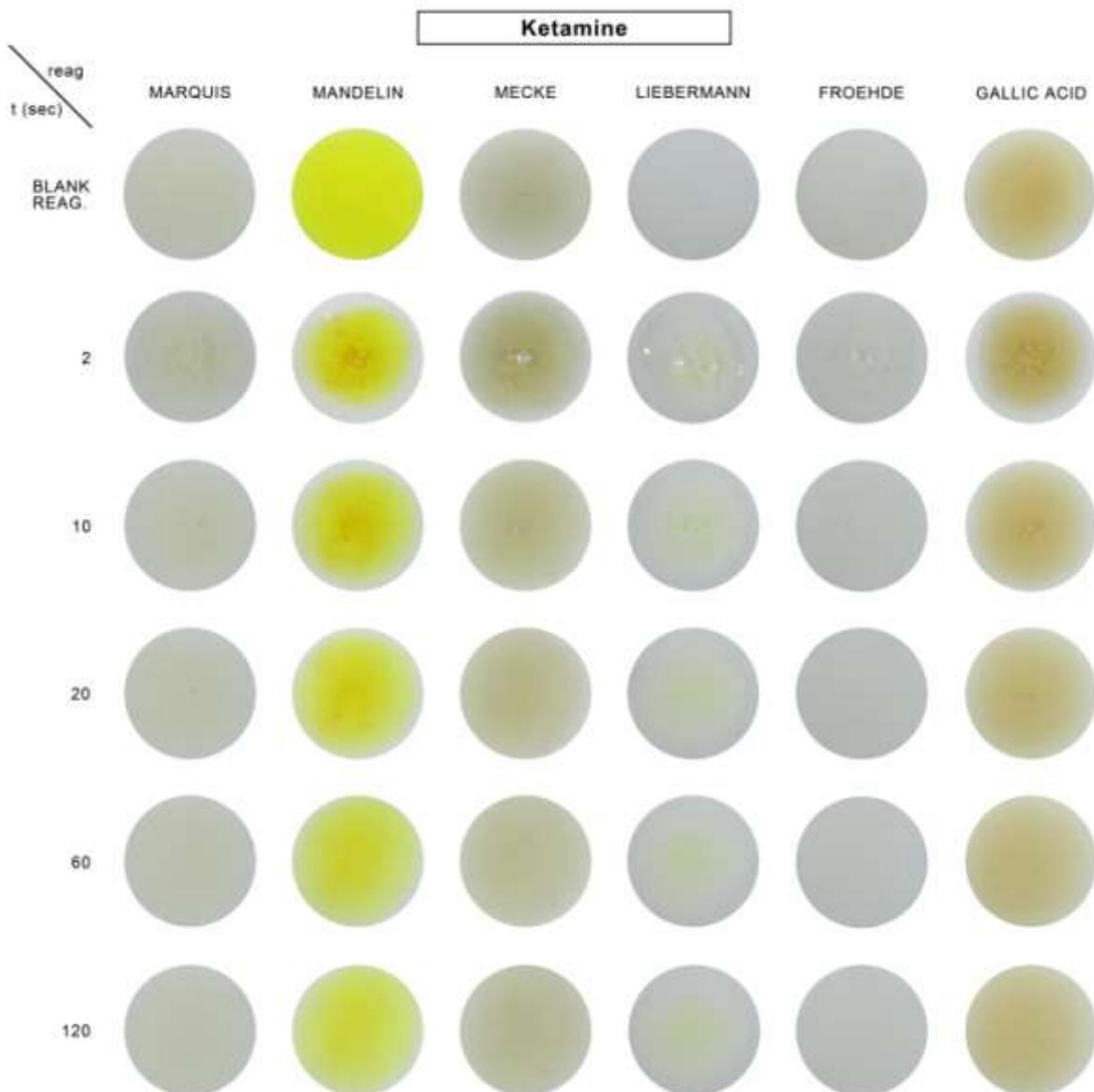
3.1. 3-MeO-PCP



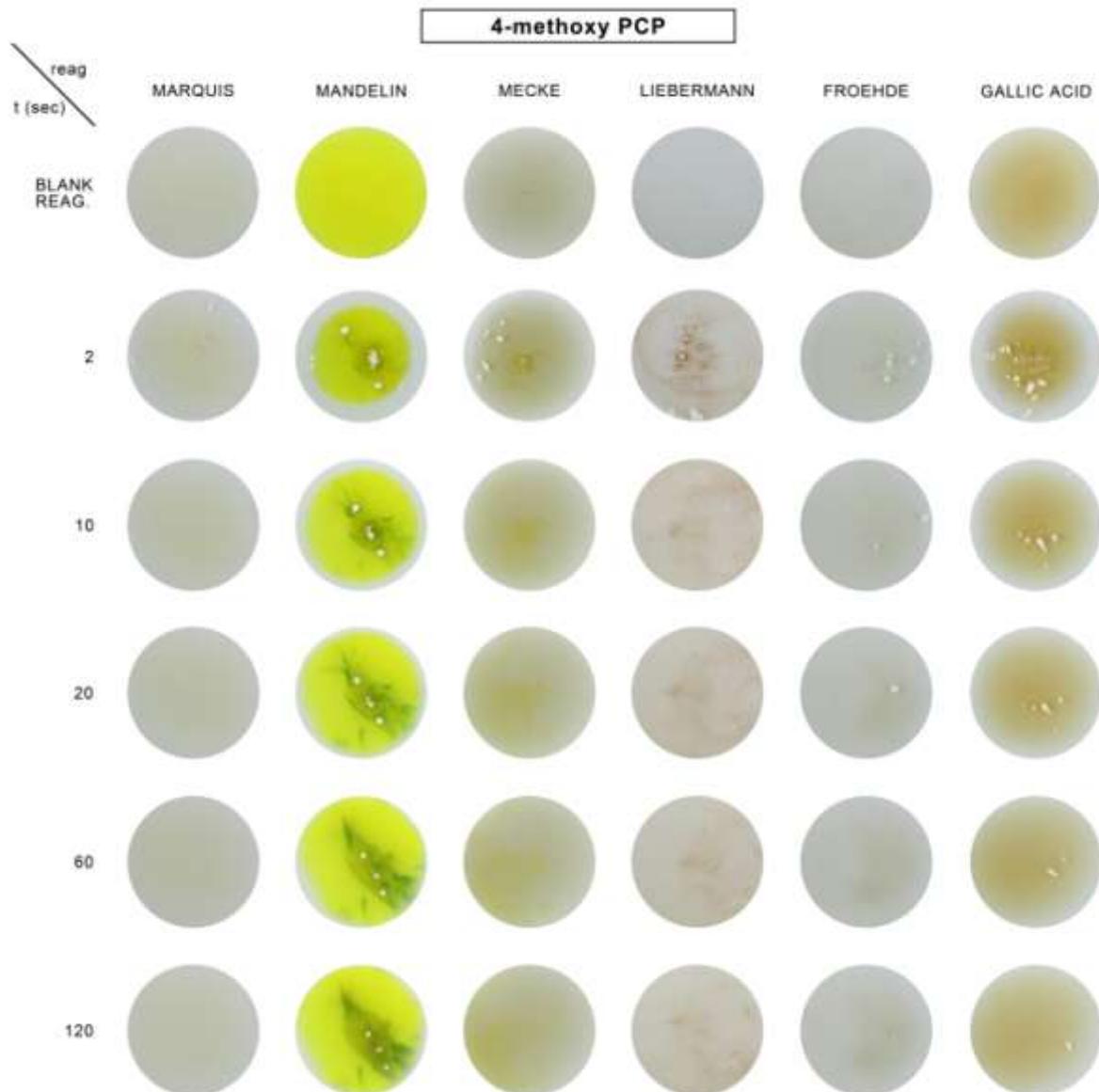
3.2. 3-MeO-PCE



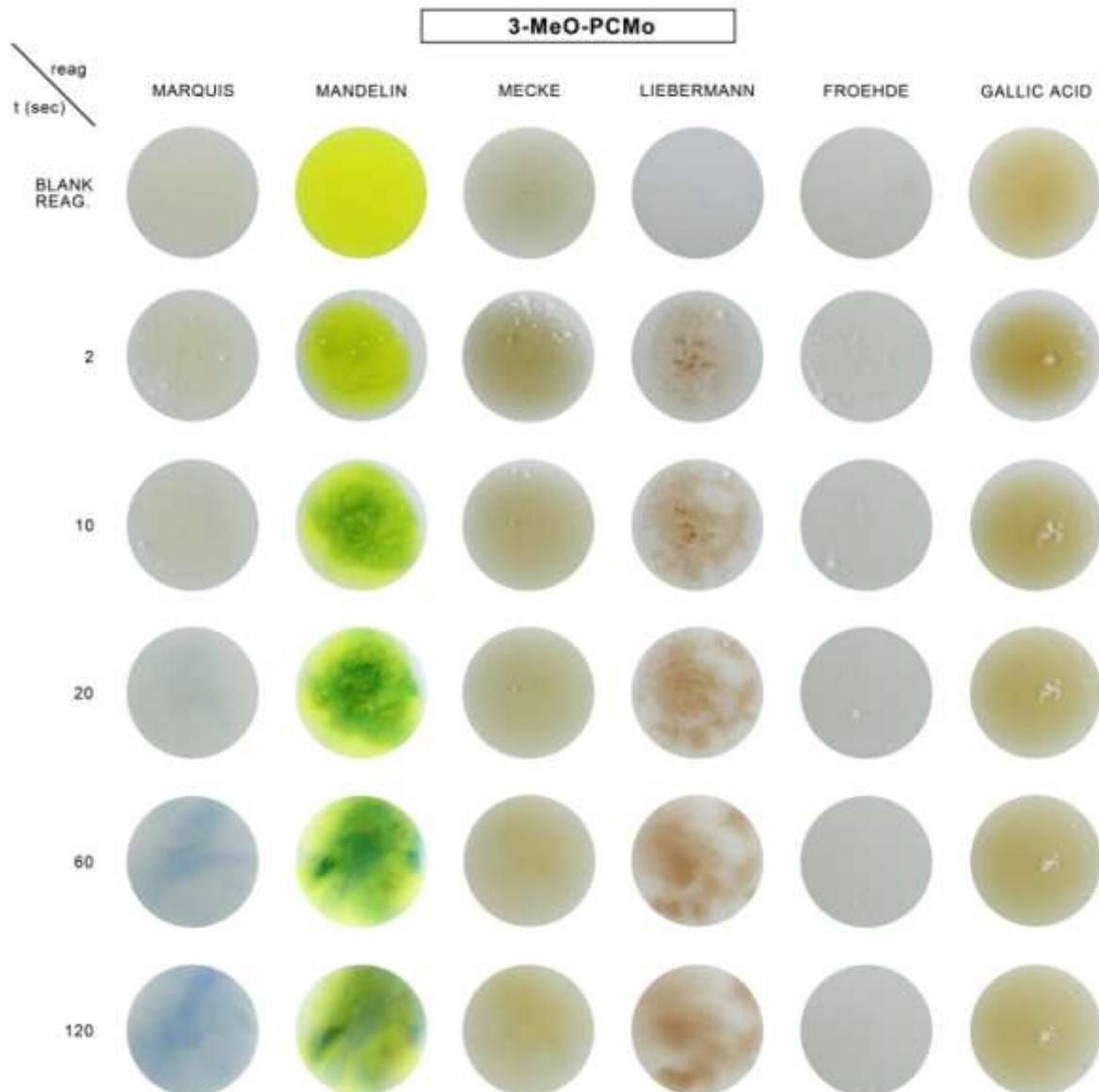
3.3. Ketamine



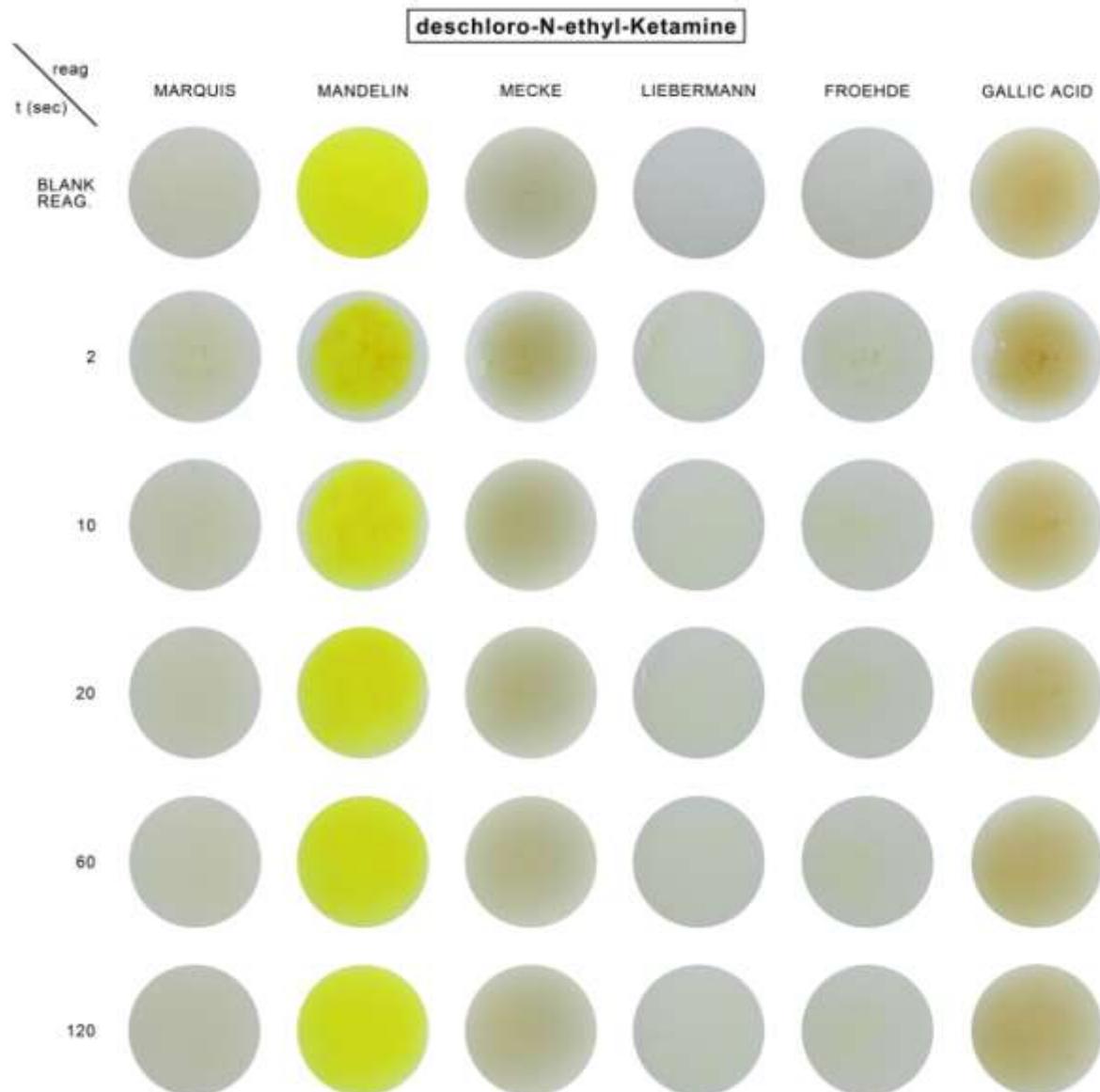
3.4. 4-methoxy PCP



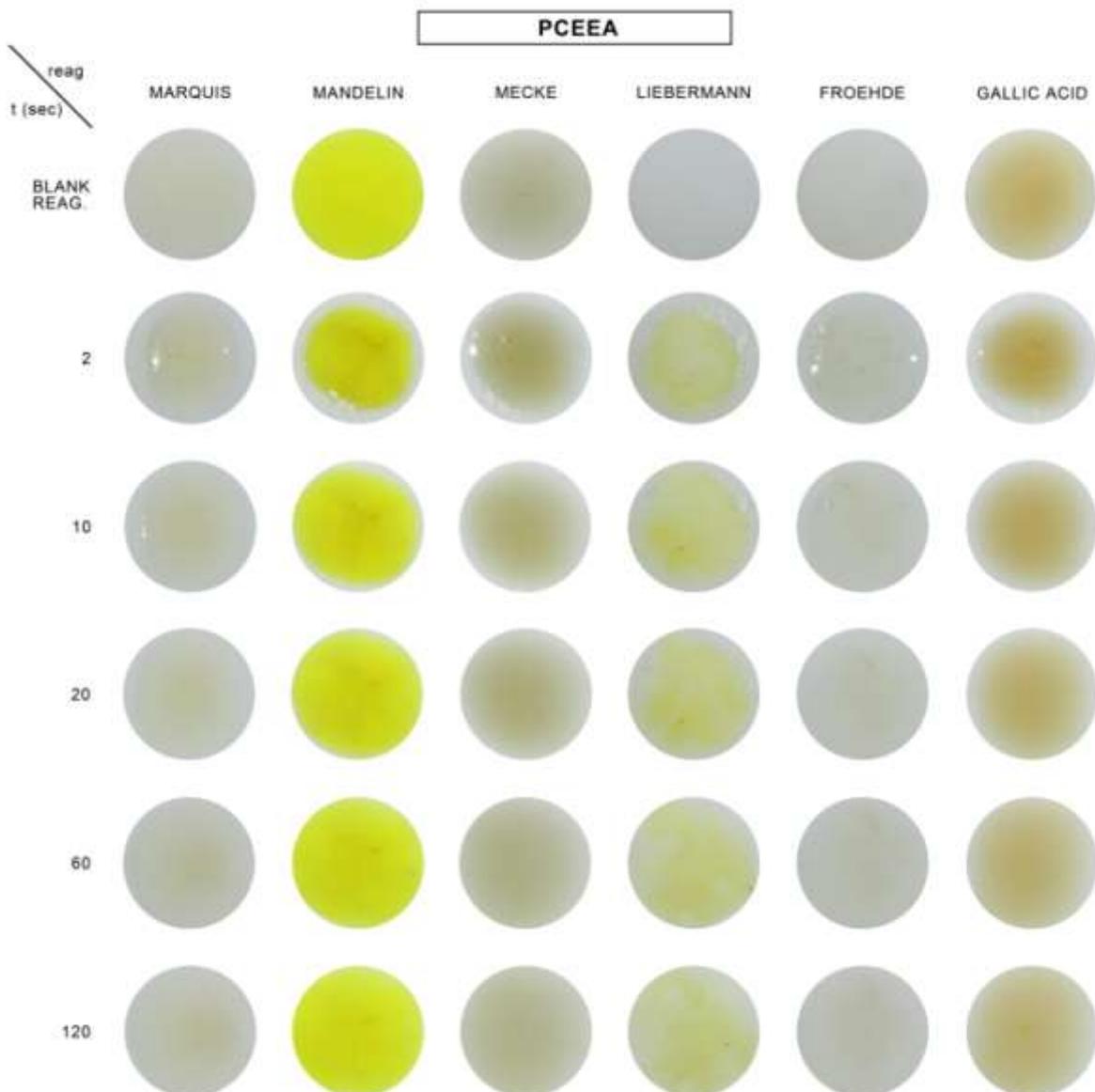
3.5. 3-MeO-PCMo



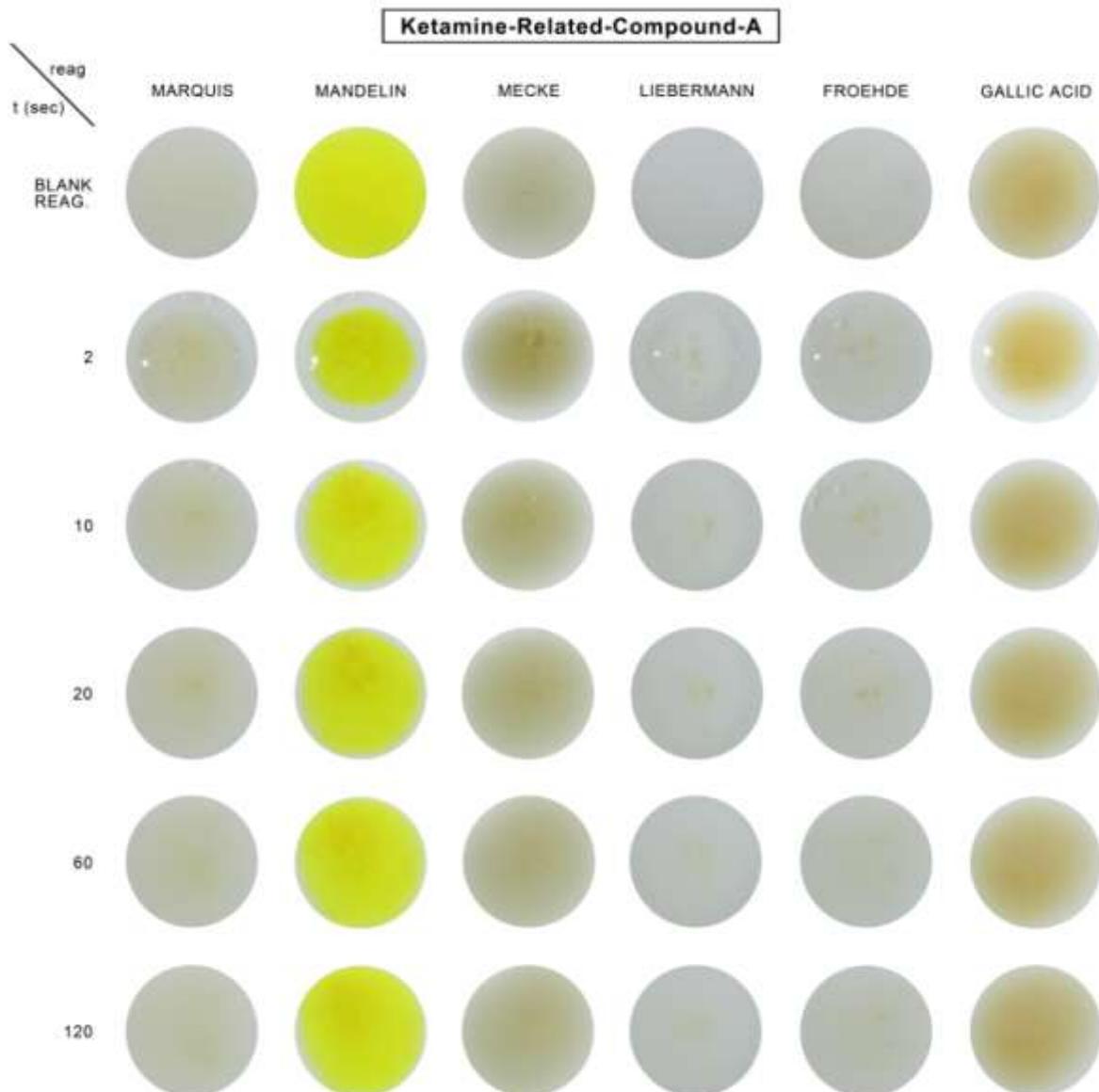
3.6. deschloro-N-ethyl-Ketamine



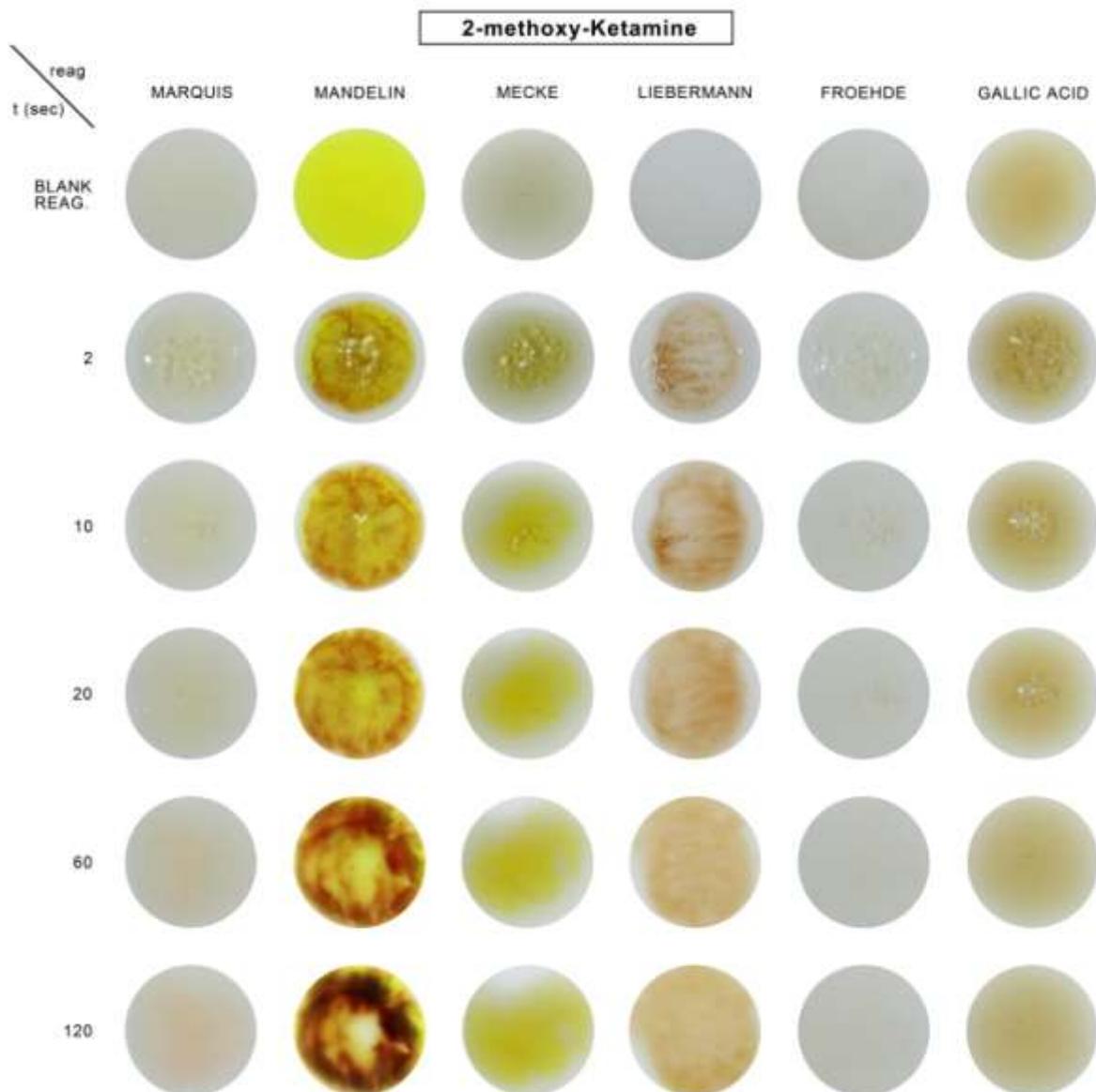
3.7. PCEEA



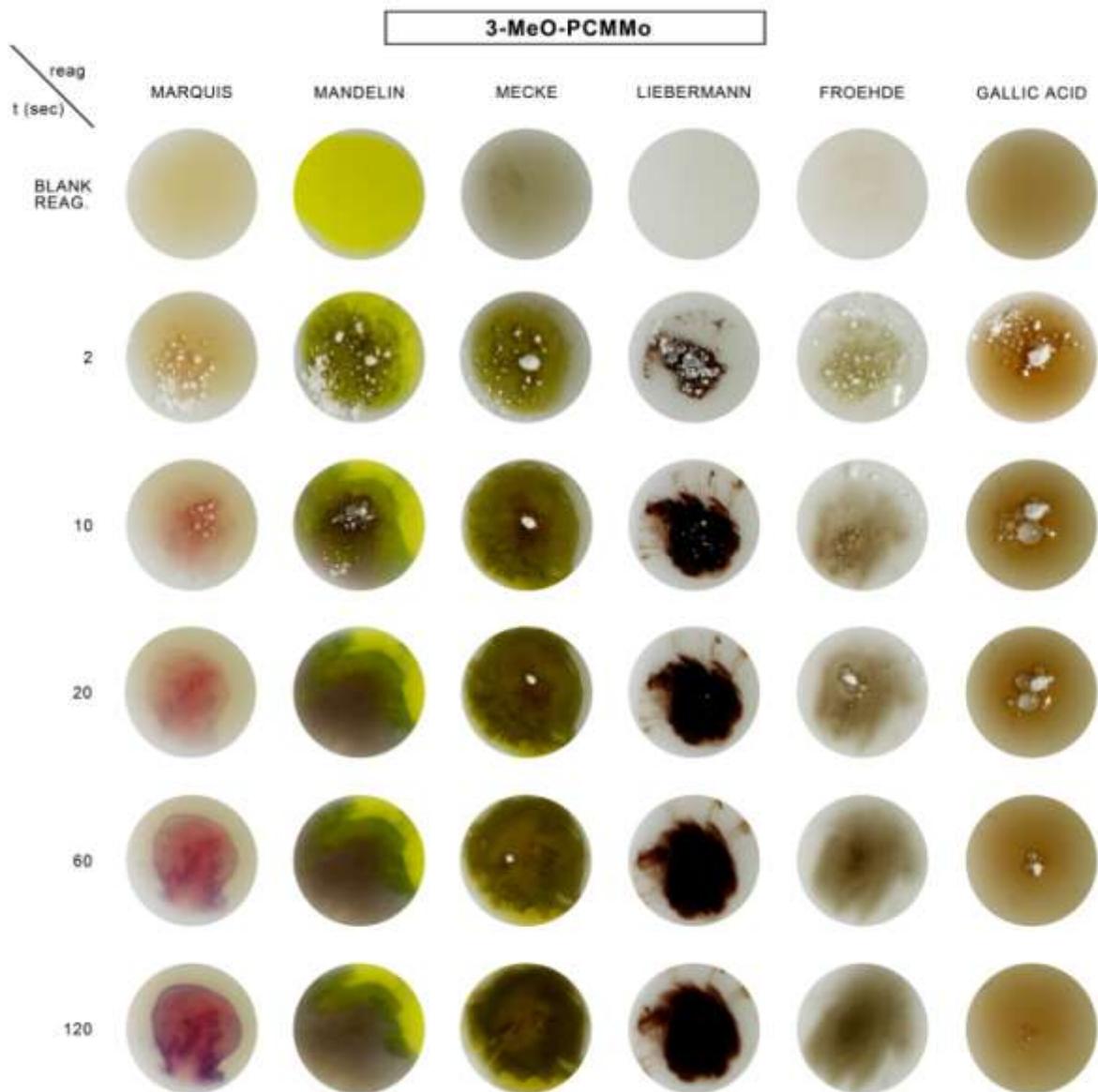
3.8. Ketamine-Related-Compound-A



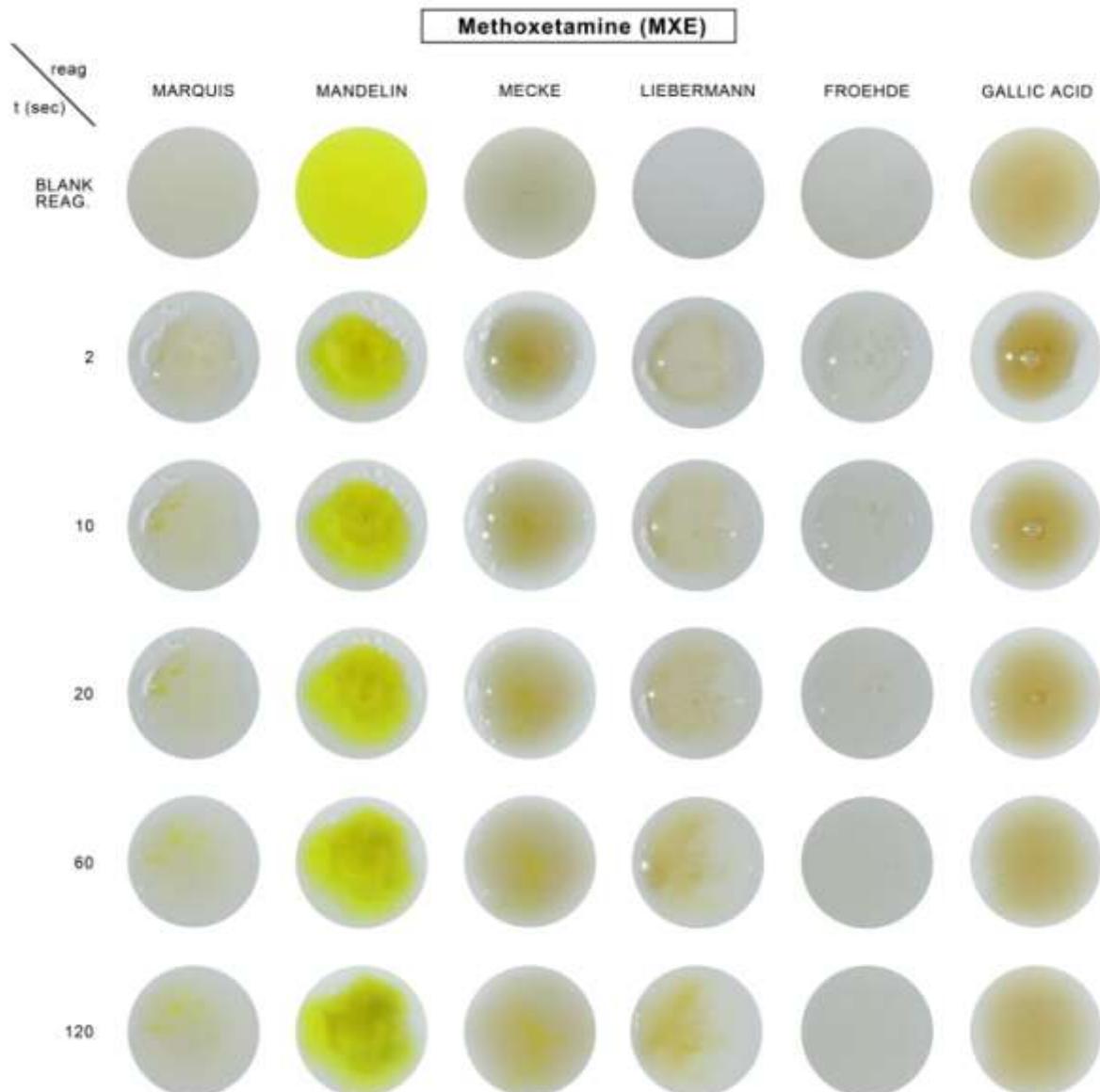
3.9. 2-methoxy-Ketamine



3.10. 3-MeO-PCMMo

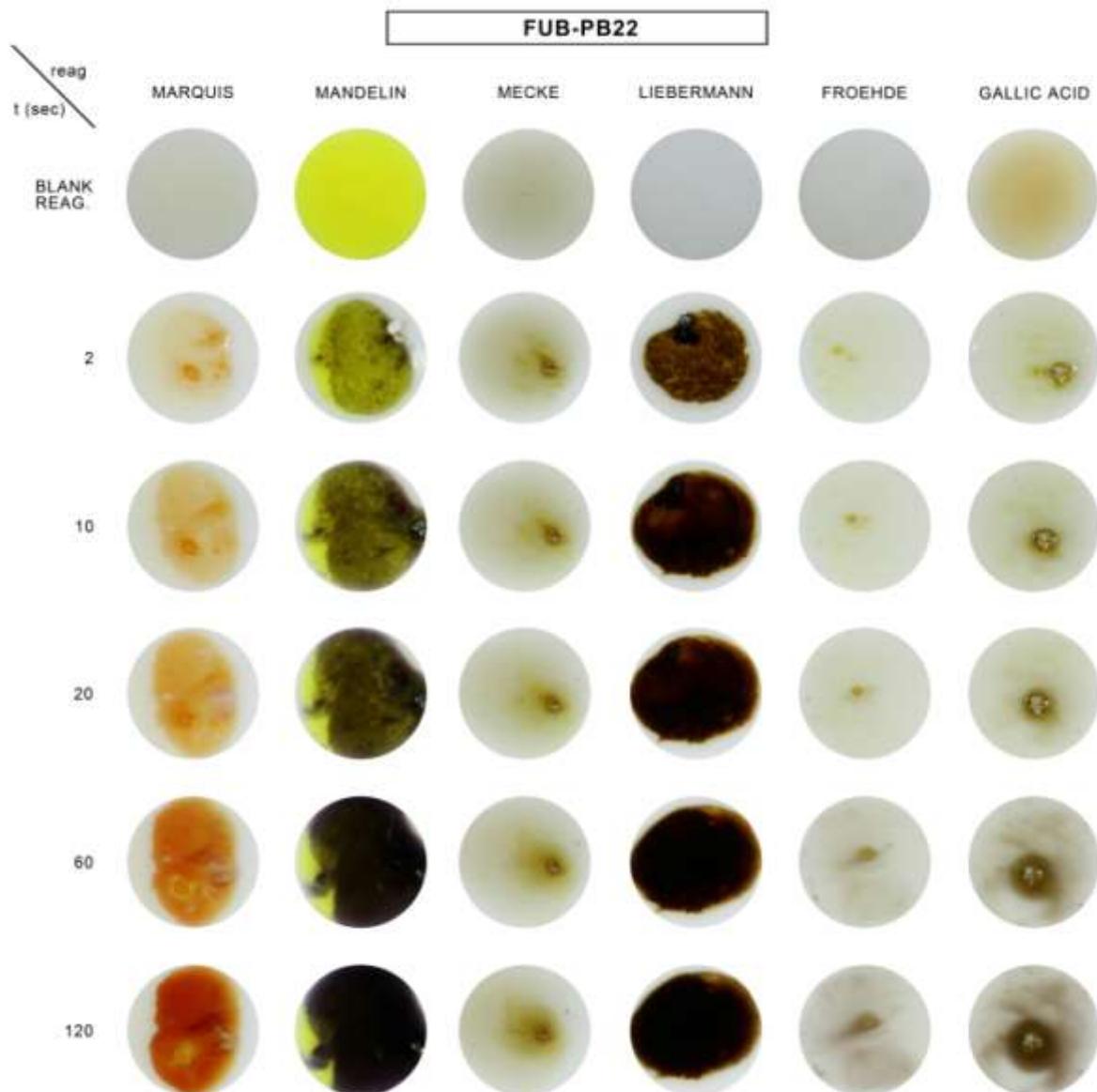


3.11. Methoxetamine (MXE)

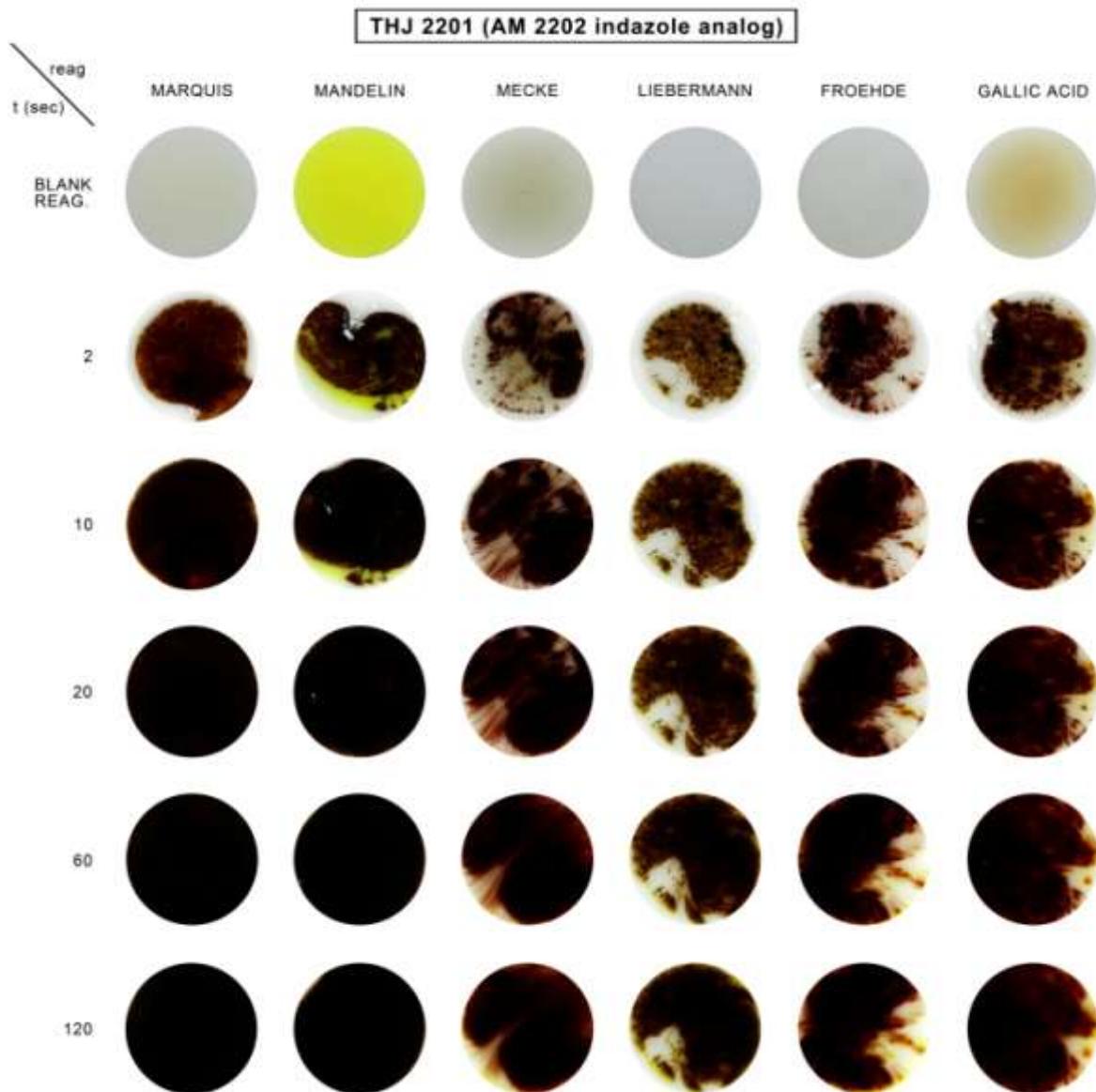


4. Cannabinoids

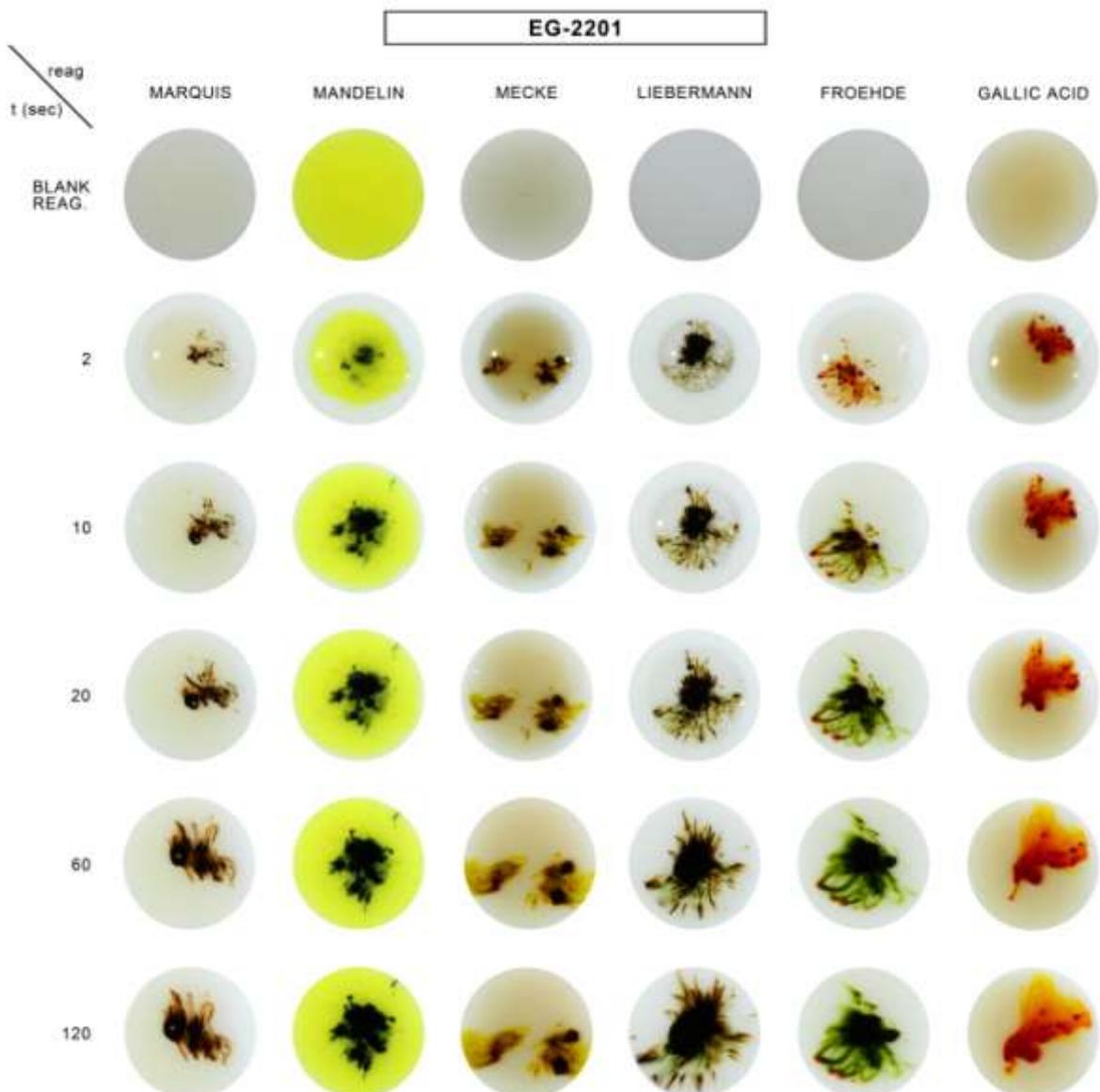
4.1. FUB-PB22



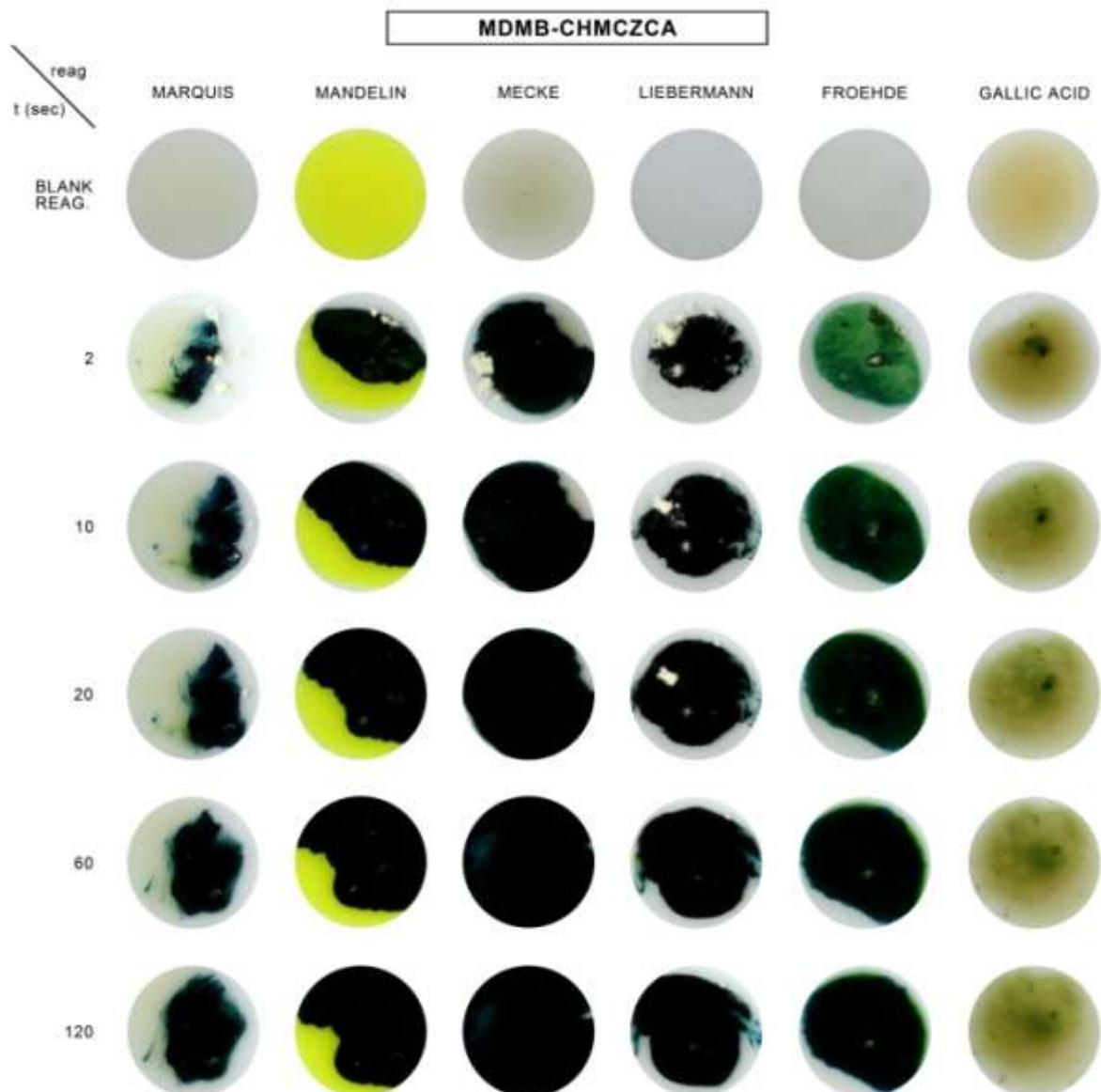
4.2. THJ 2201 (AM 2202 indazole analog)



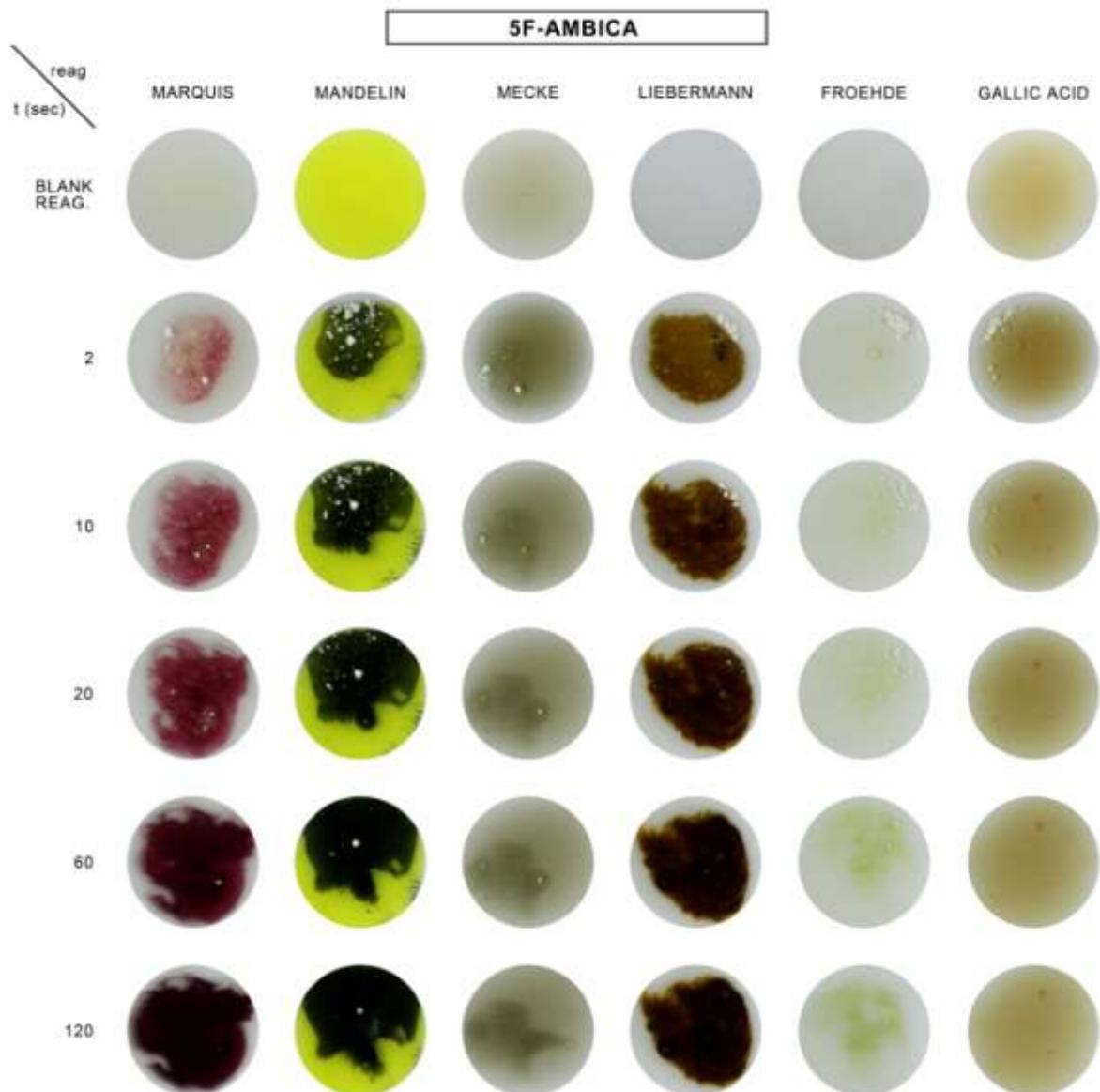
4.3. EG-2201



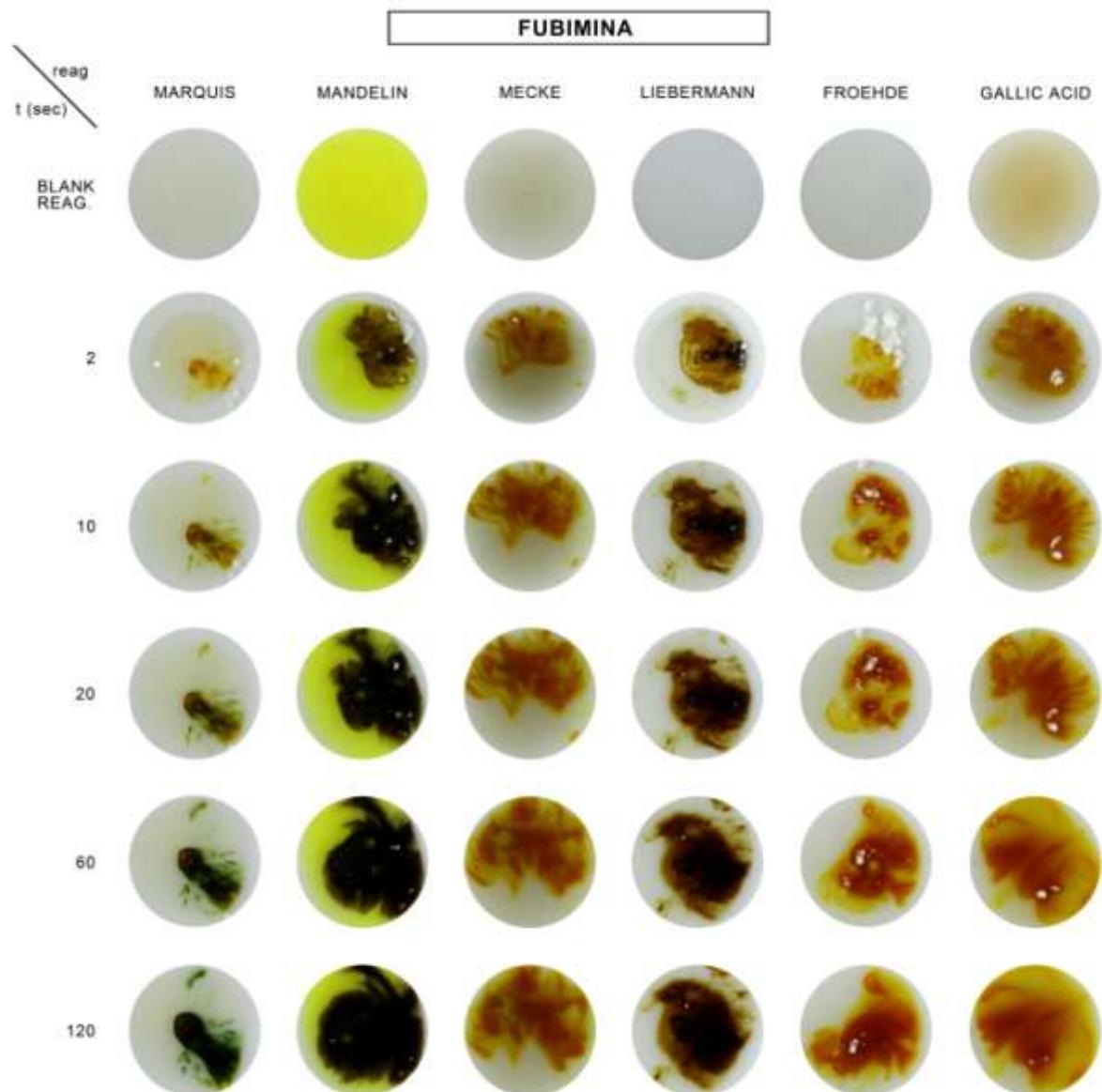
4.4. MDMB-CHMCZCA



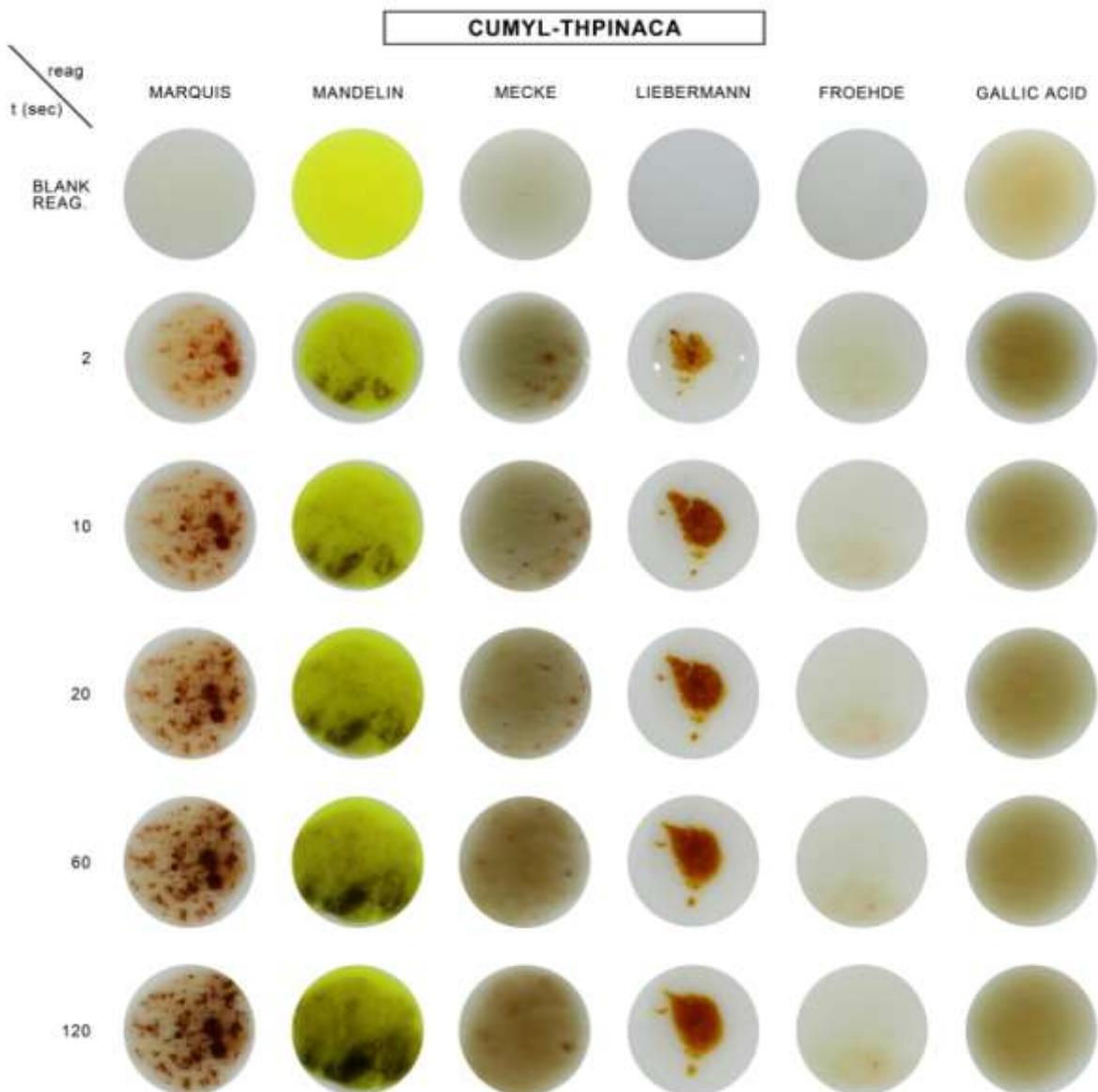
4.5. 5F-AMBICA



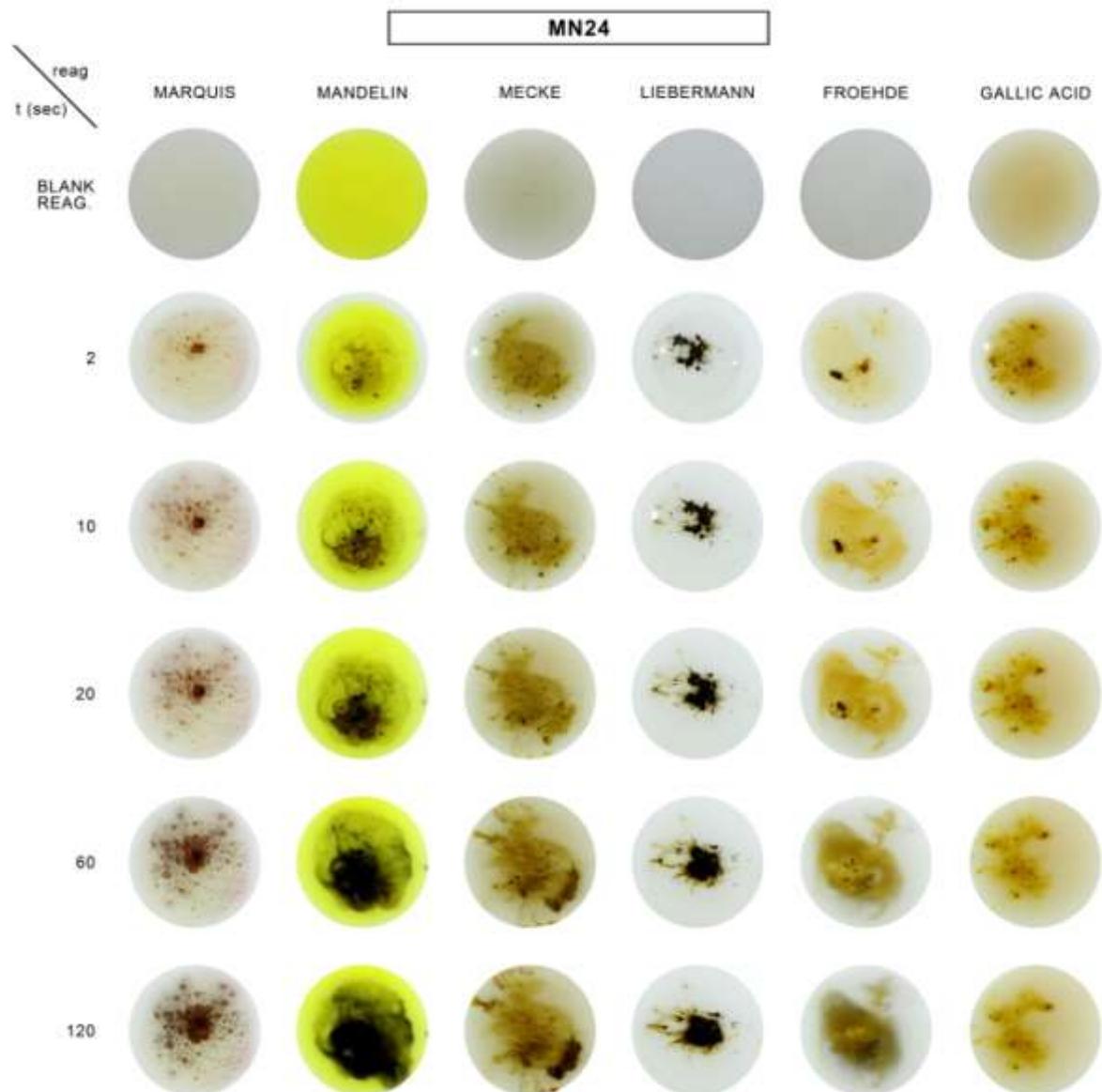
4.6. FUBIMINA



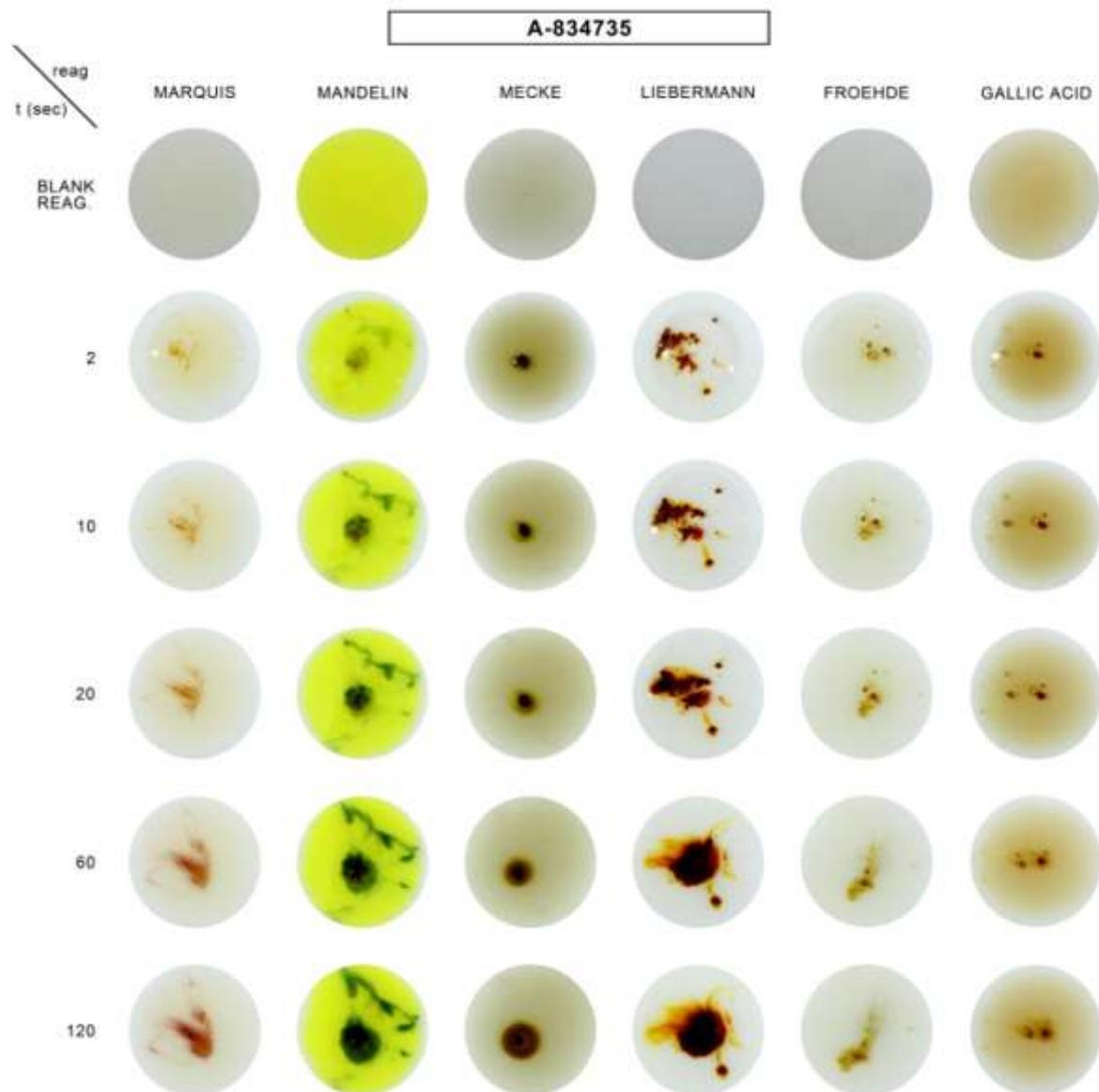
4.7. CUMYL-THPINACA



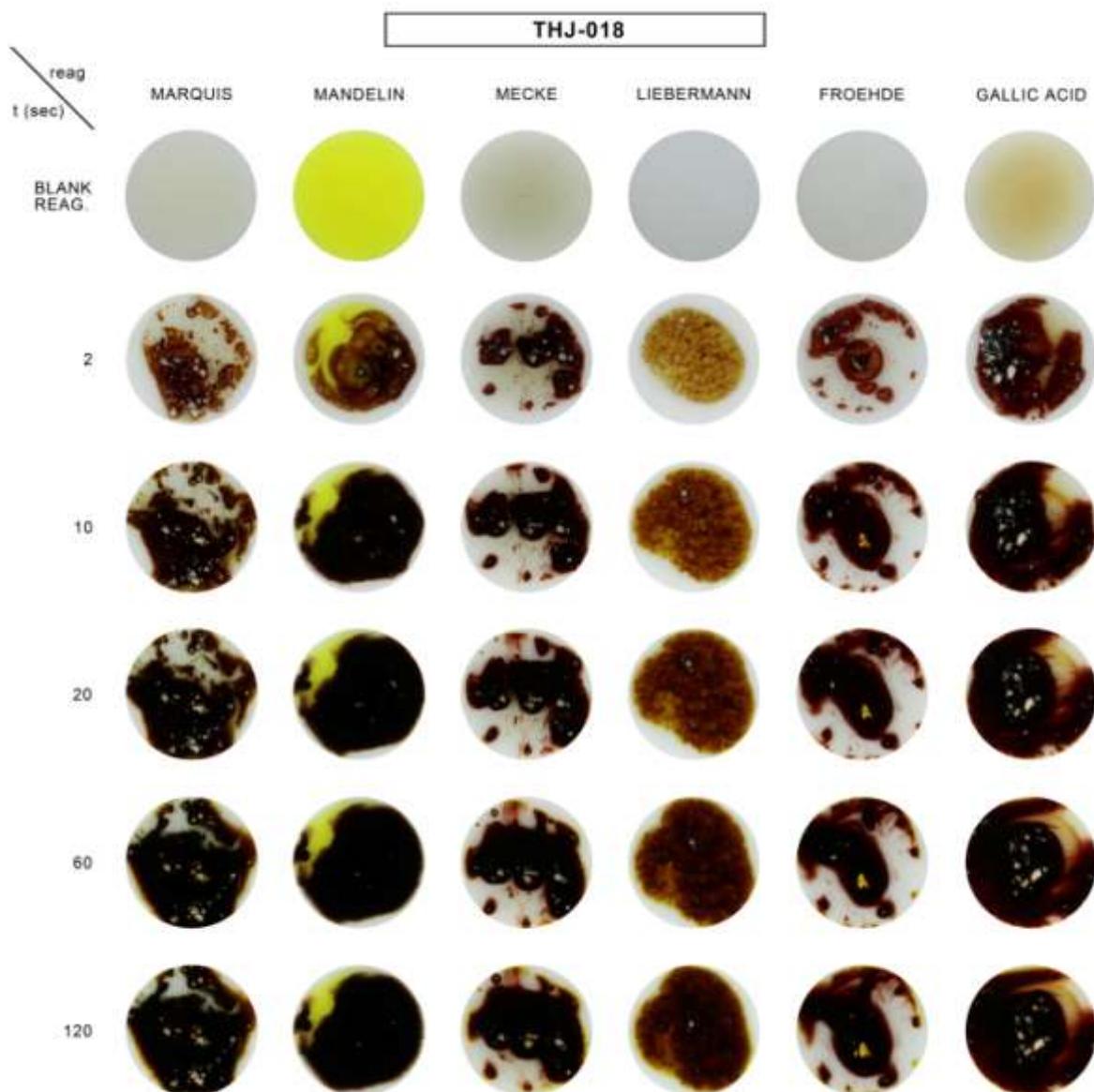
4.8. MN24



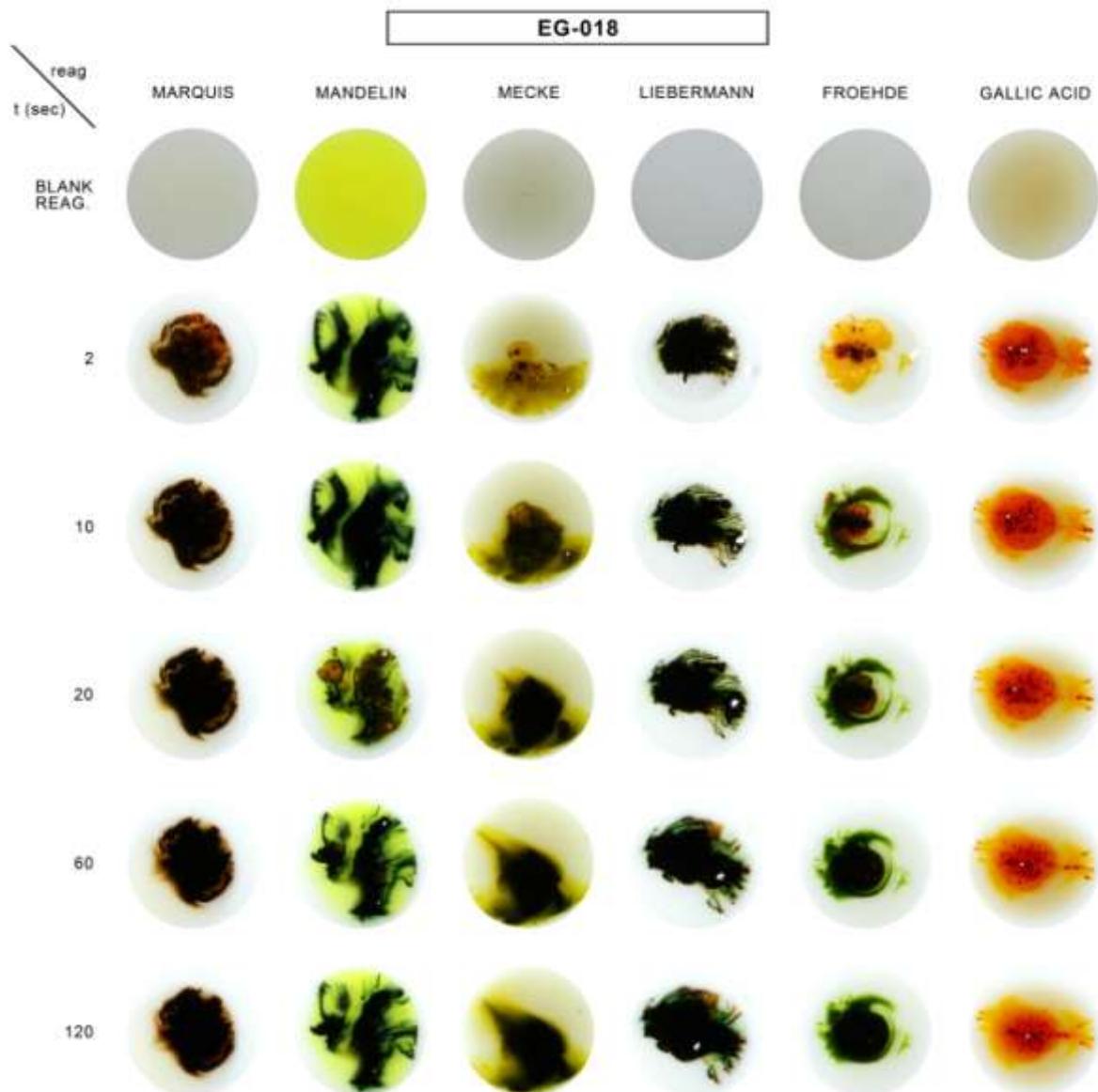
4.9.A-834735



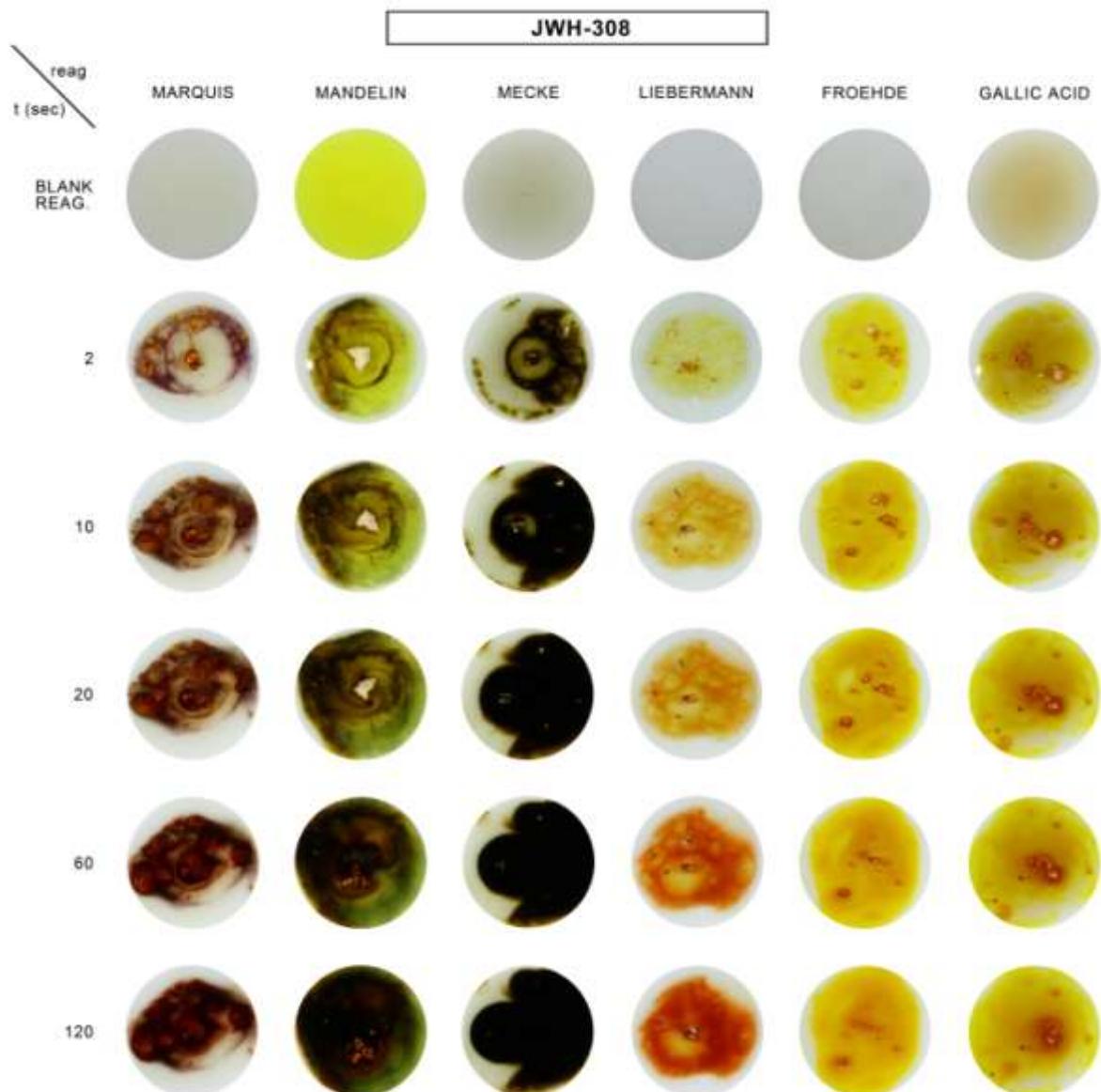
4.10. THJ-018



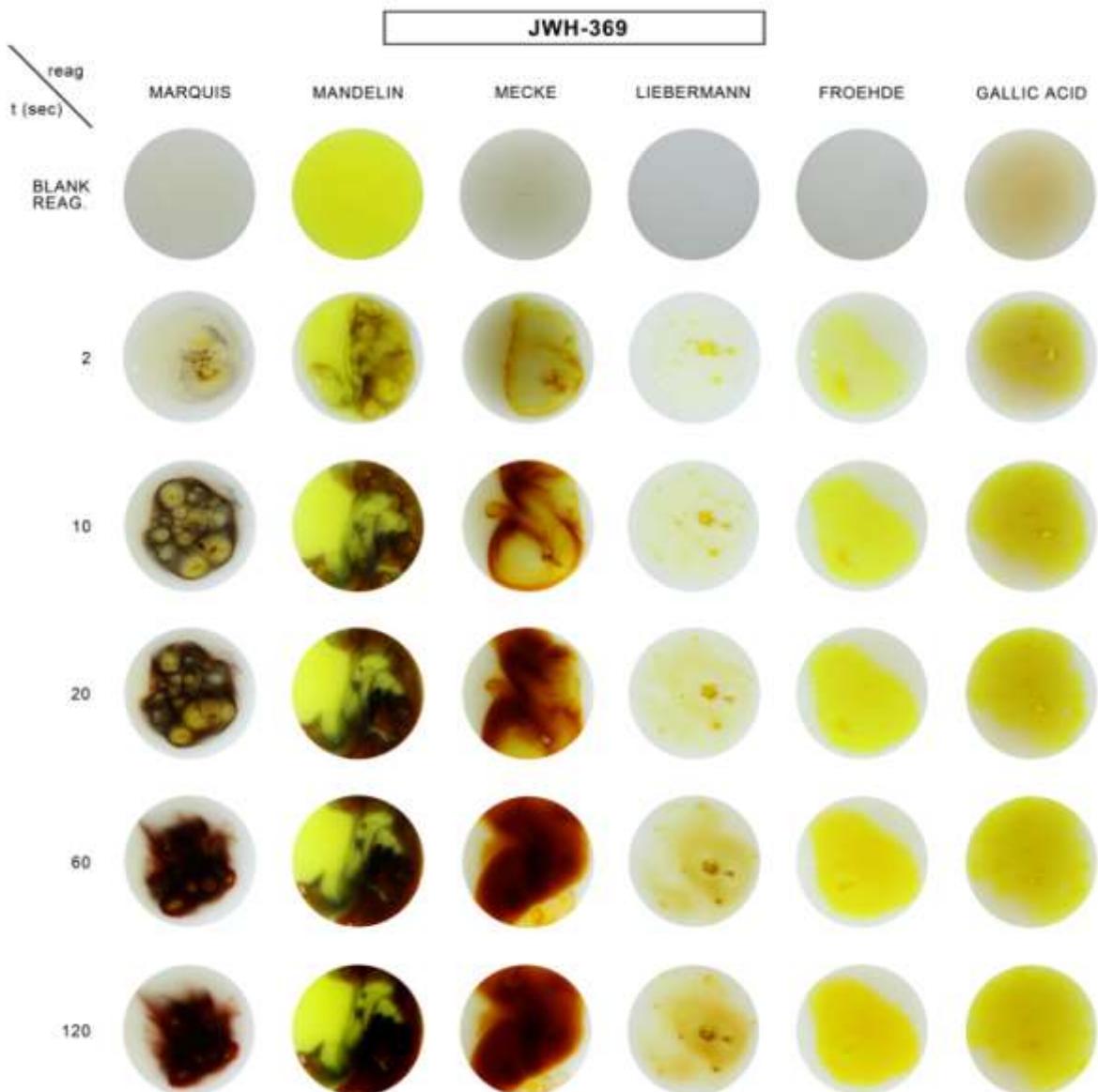
4.11. EG-018



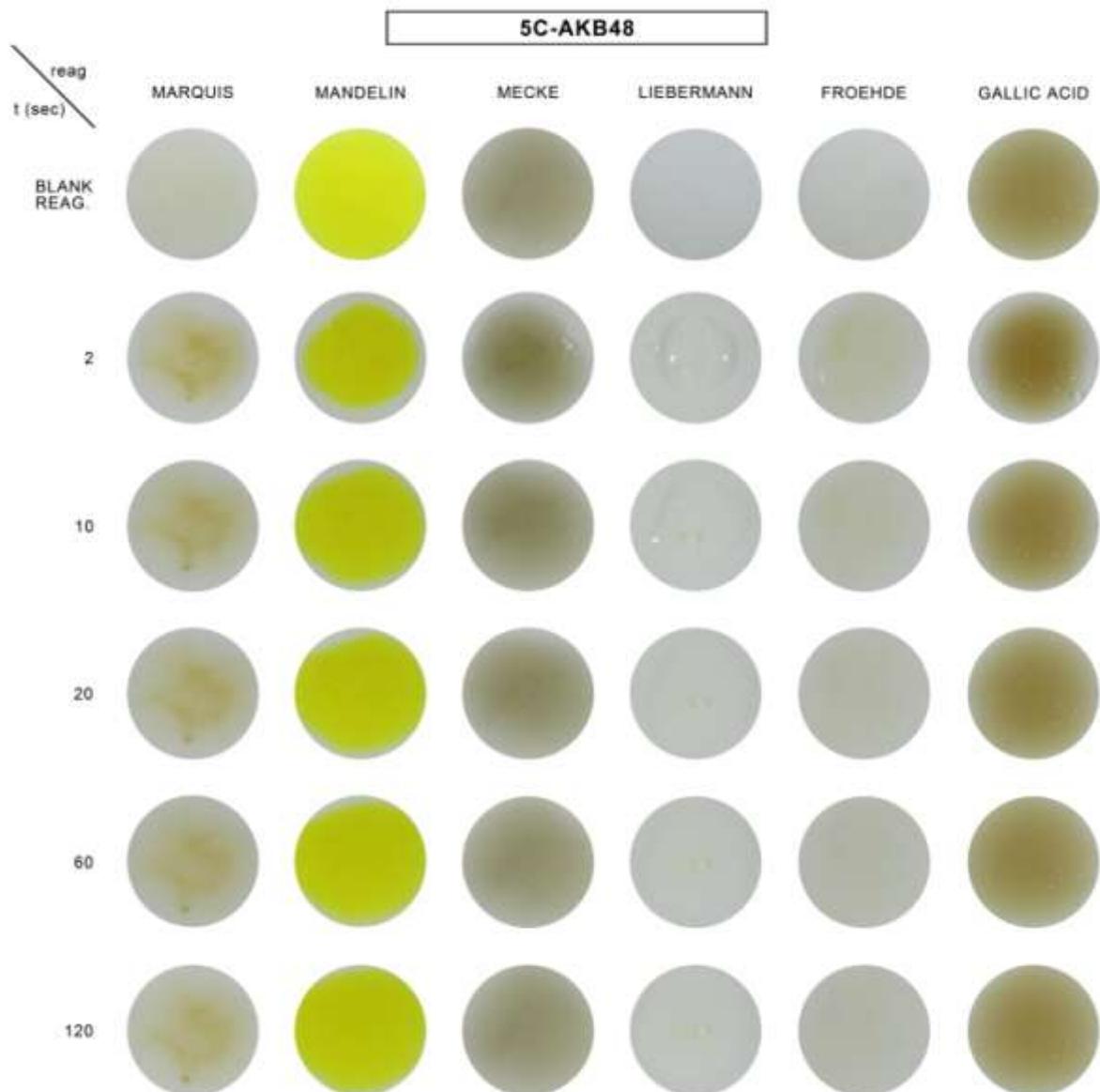
4.12. JWH-308



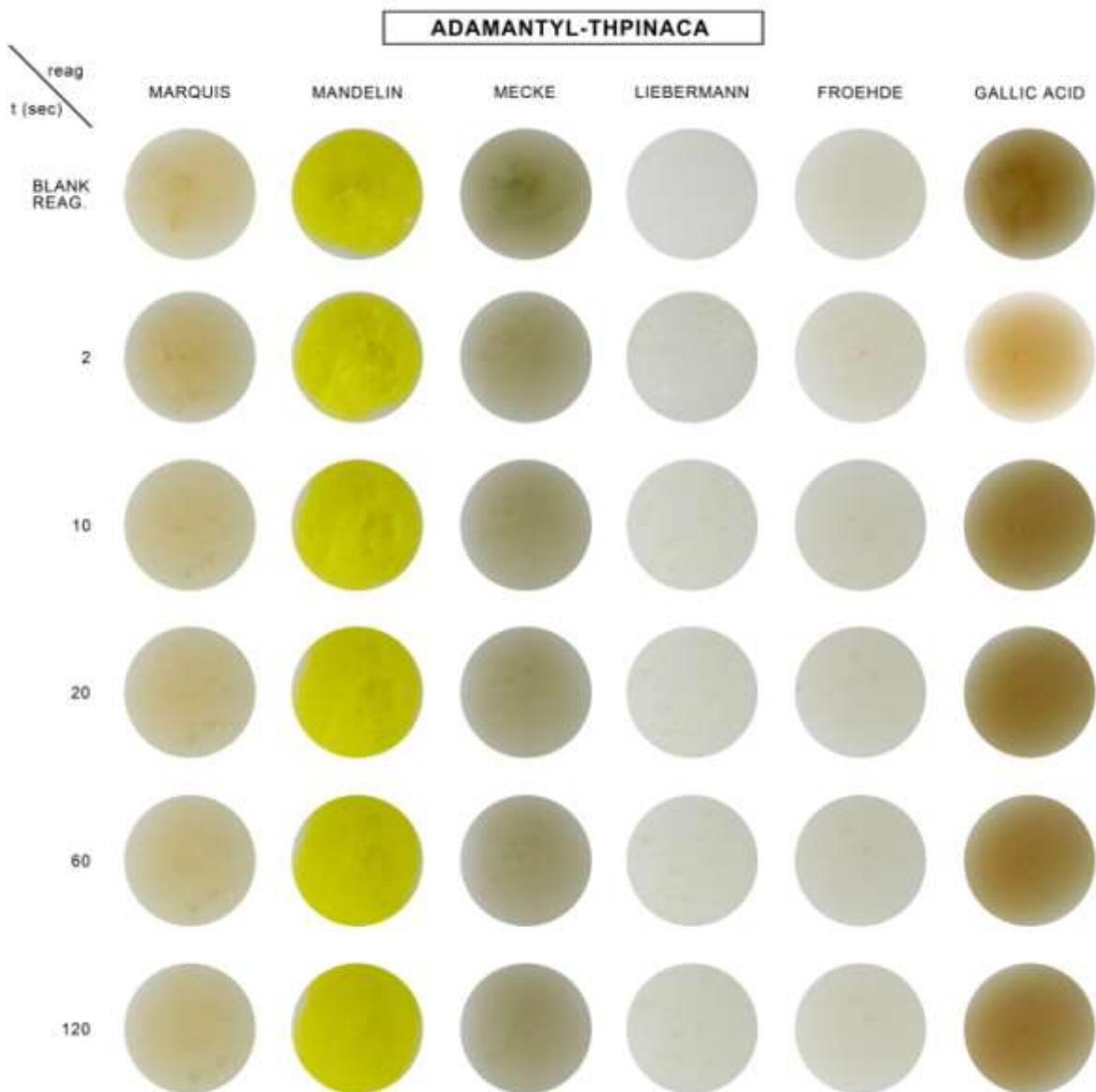
4.13. JWH-369



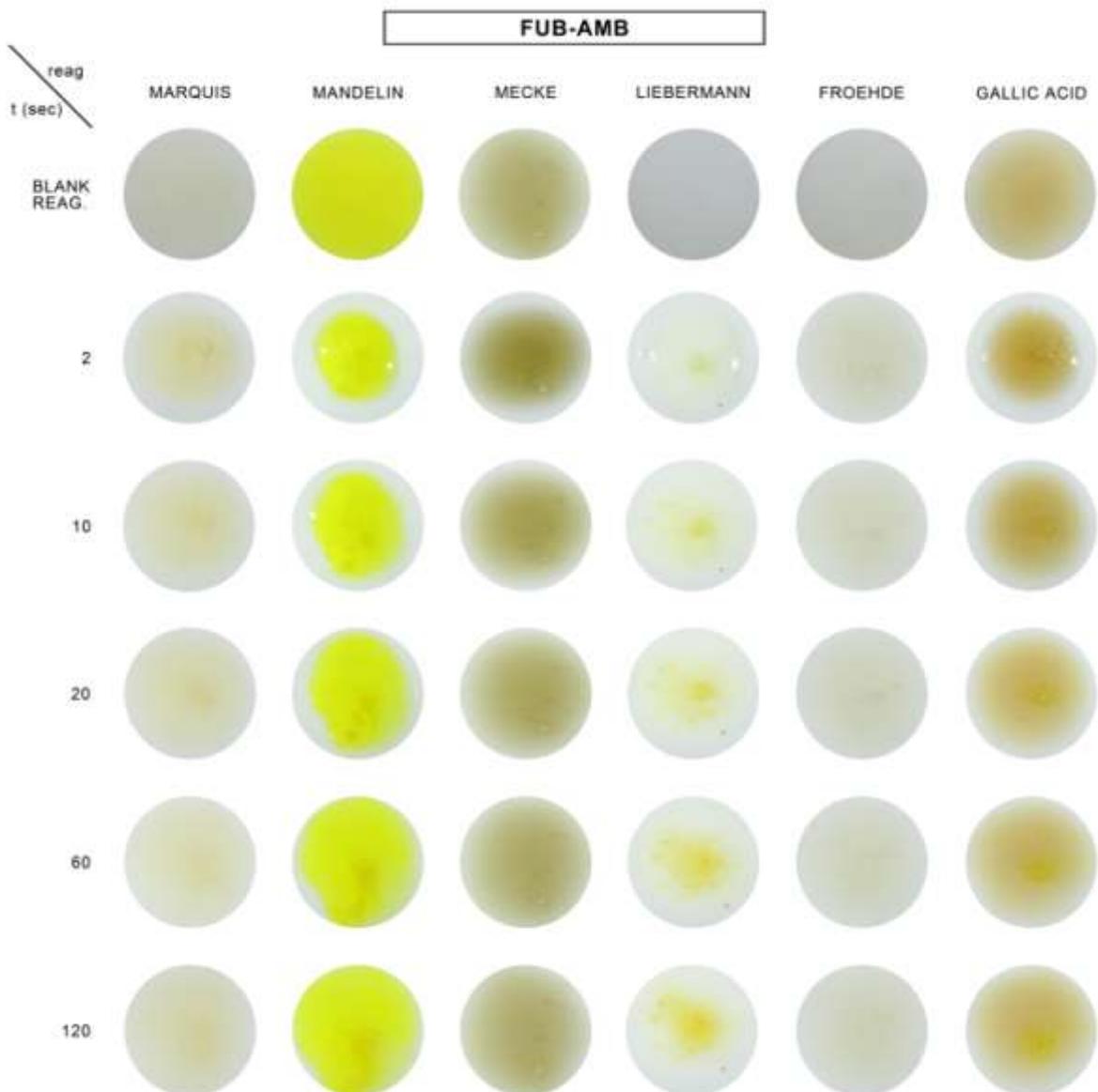
4.14. 5C-AKB48



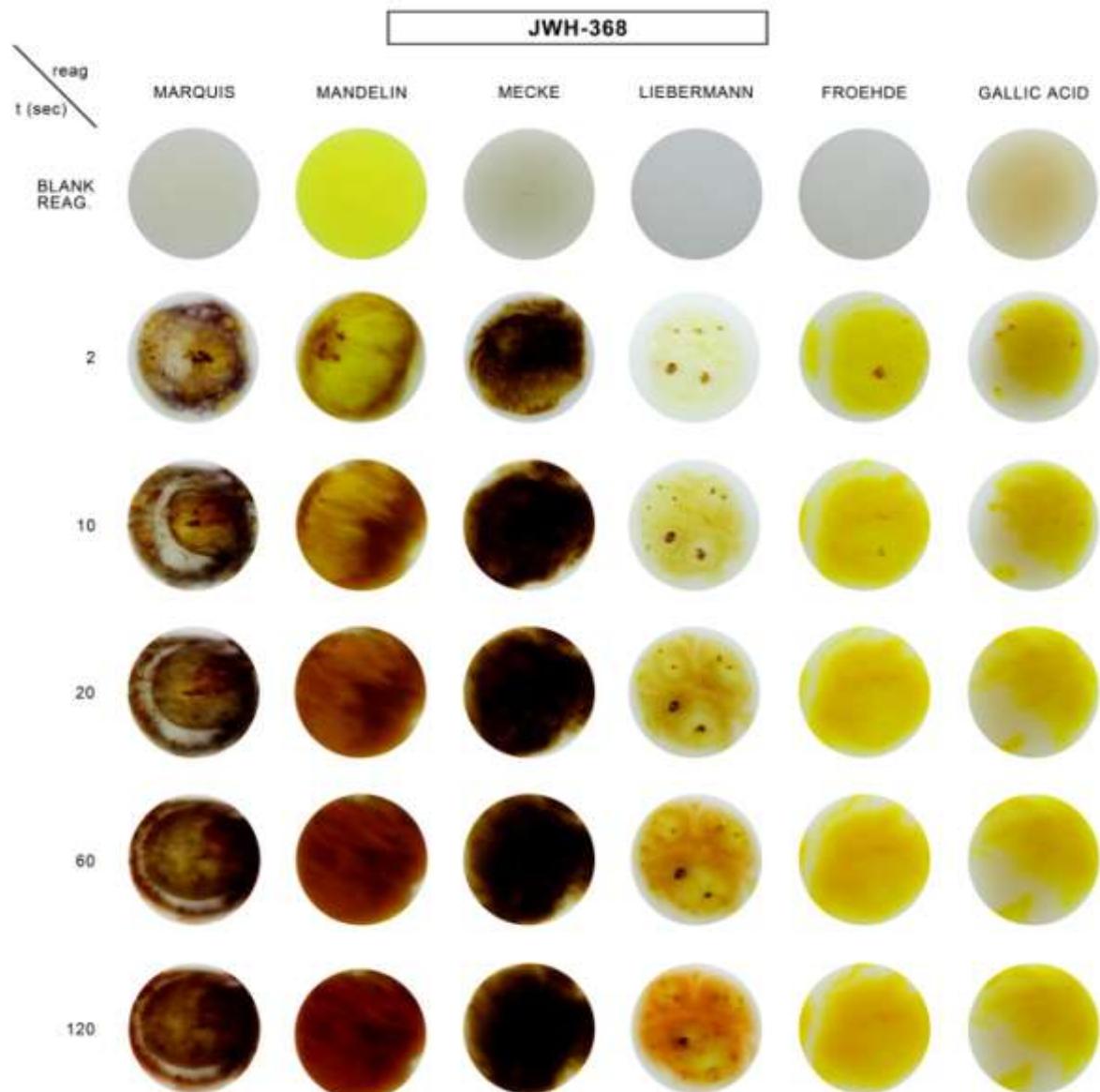
4.15. ADAMANTYL-THPINACA



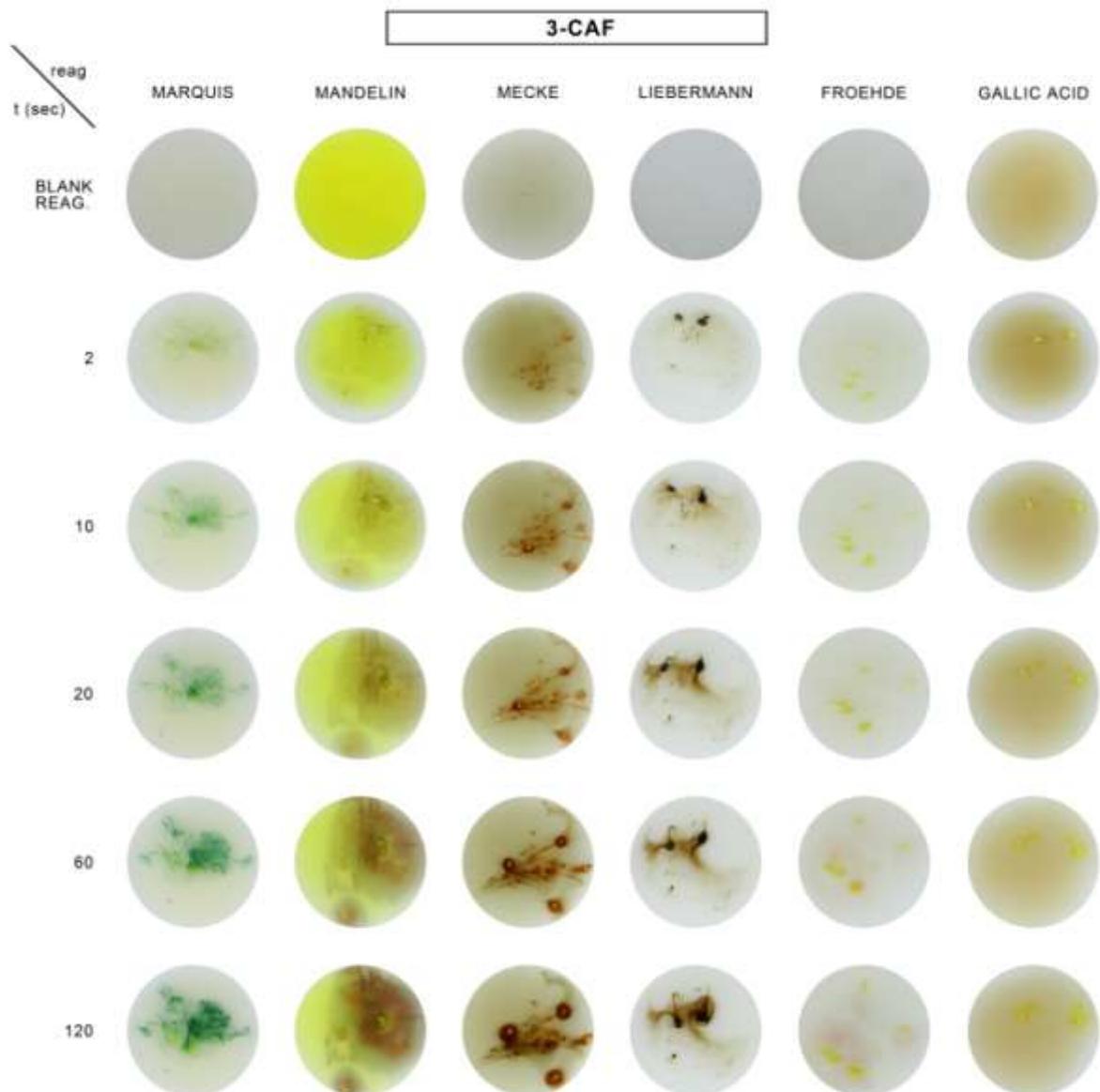
4.16. FUB-AMB



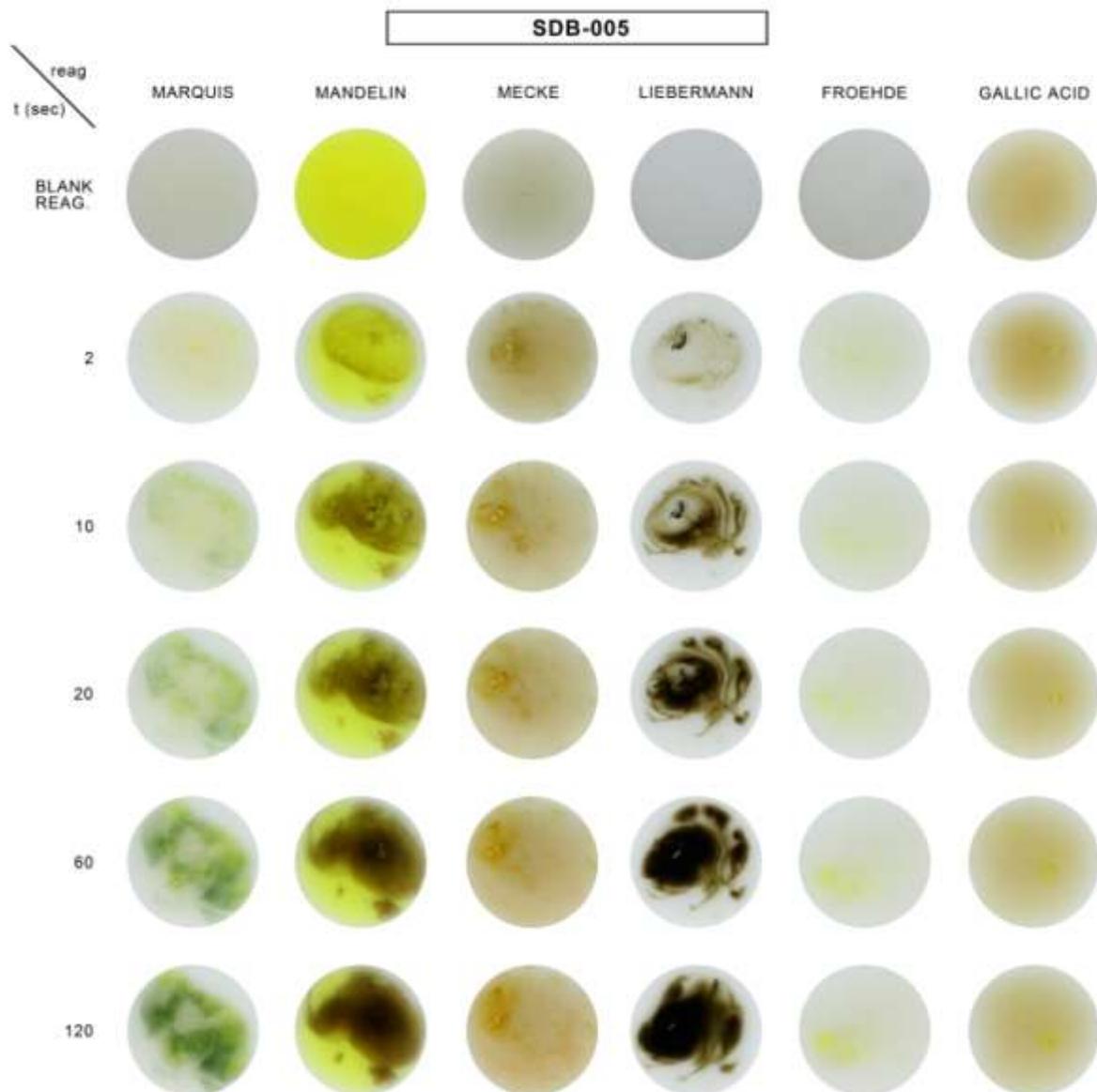
4.17. JWH-368



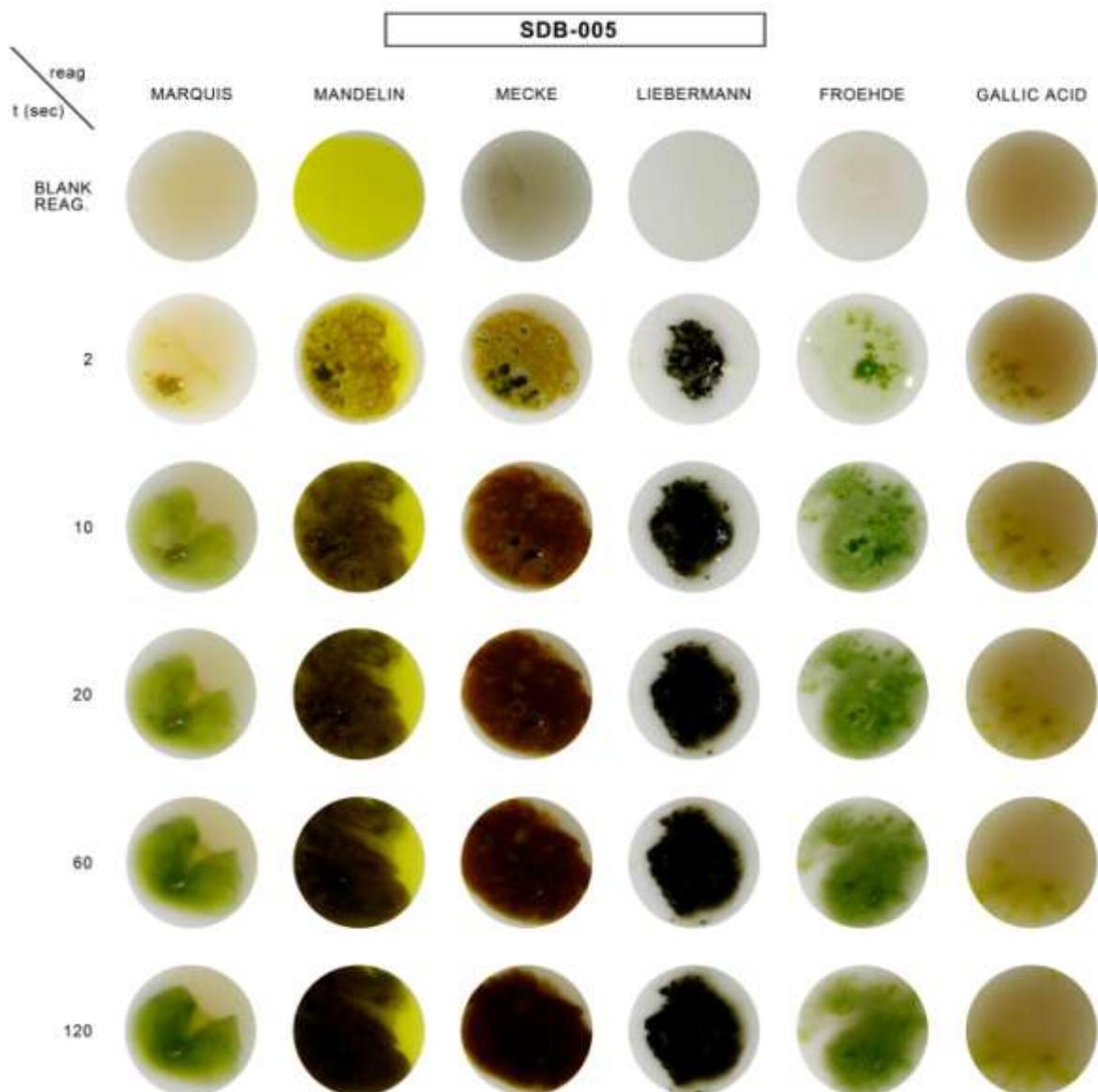
4.18. 3-CAF



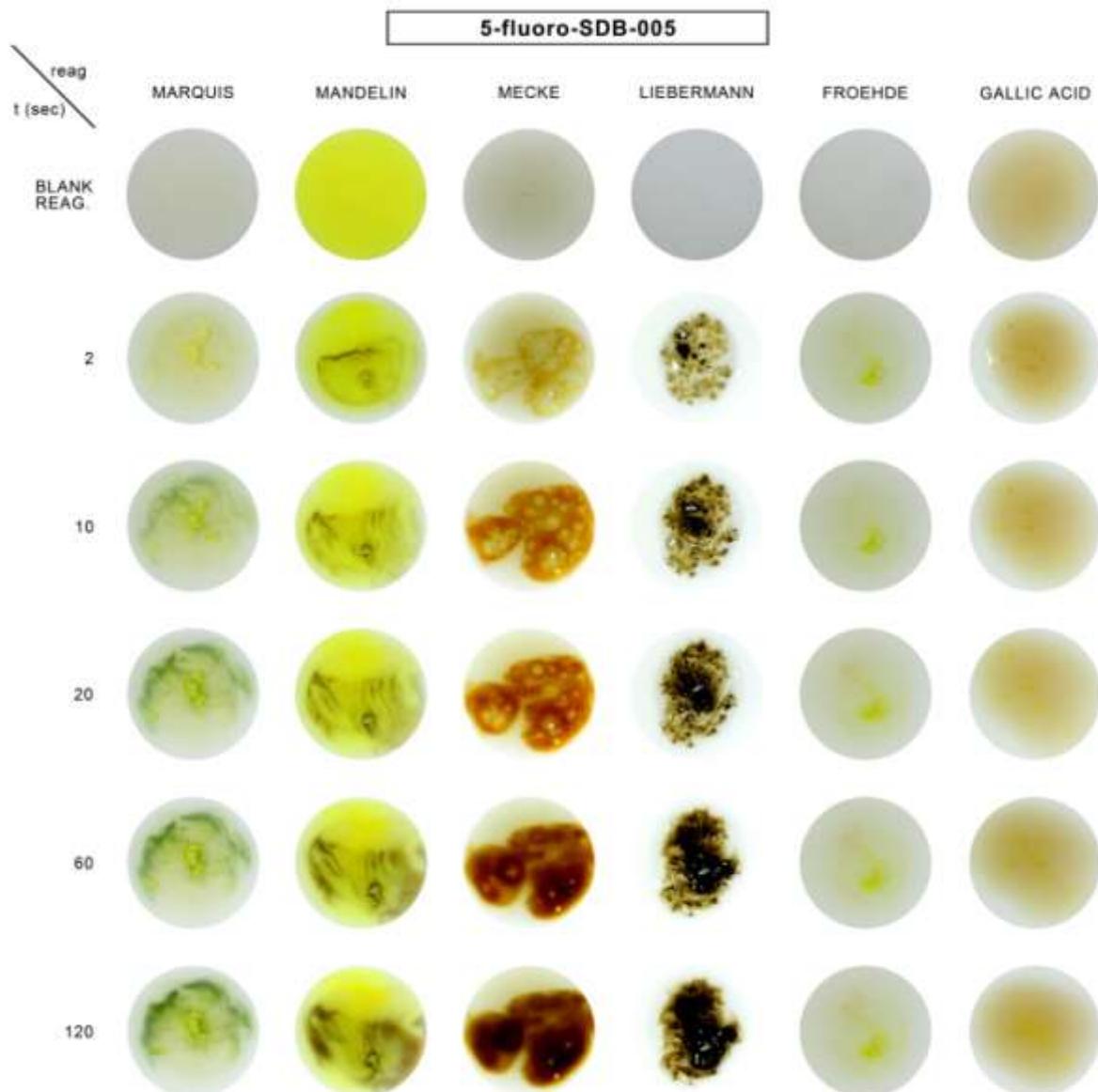
4.19. SDB-005



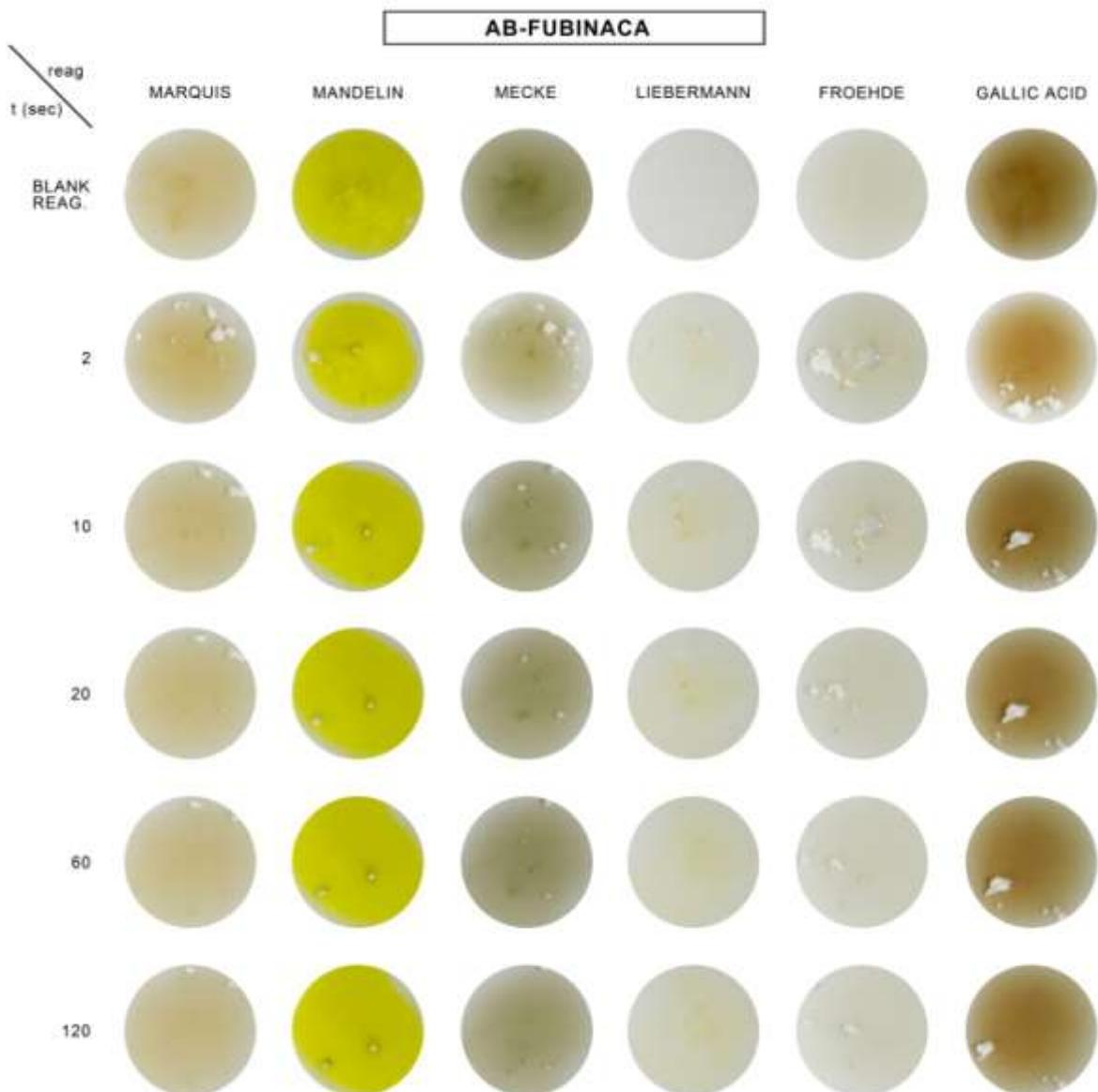
4.20. SDB-005



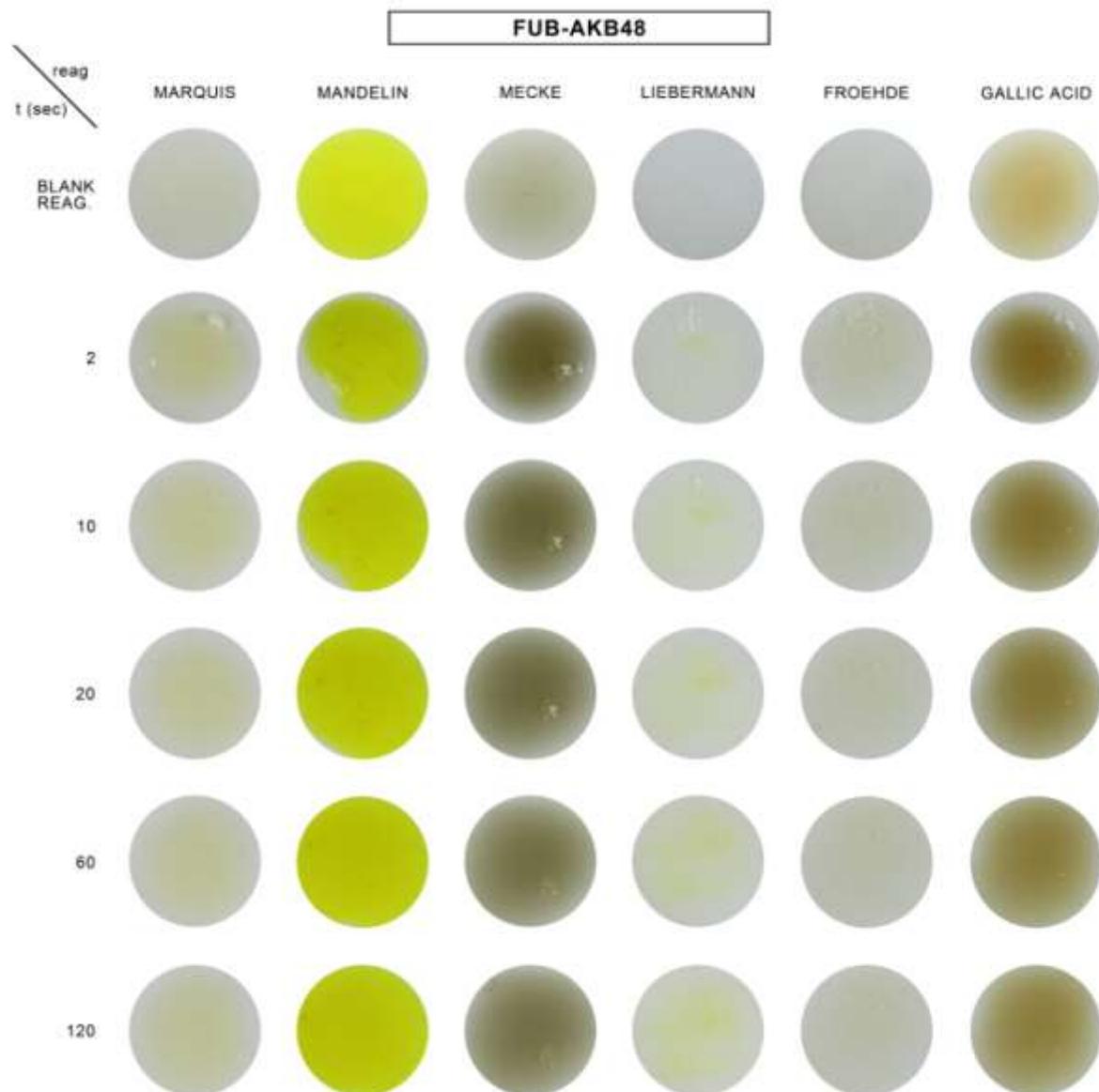
4.21. 5-fluoro-SDB-005



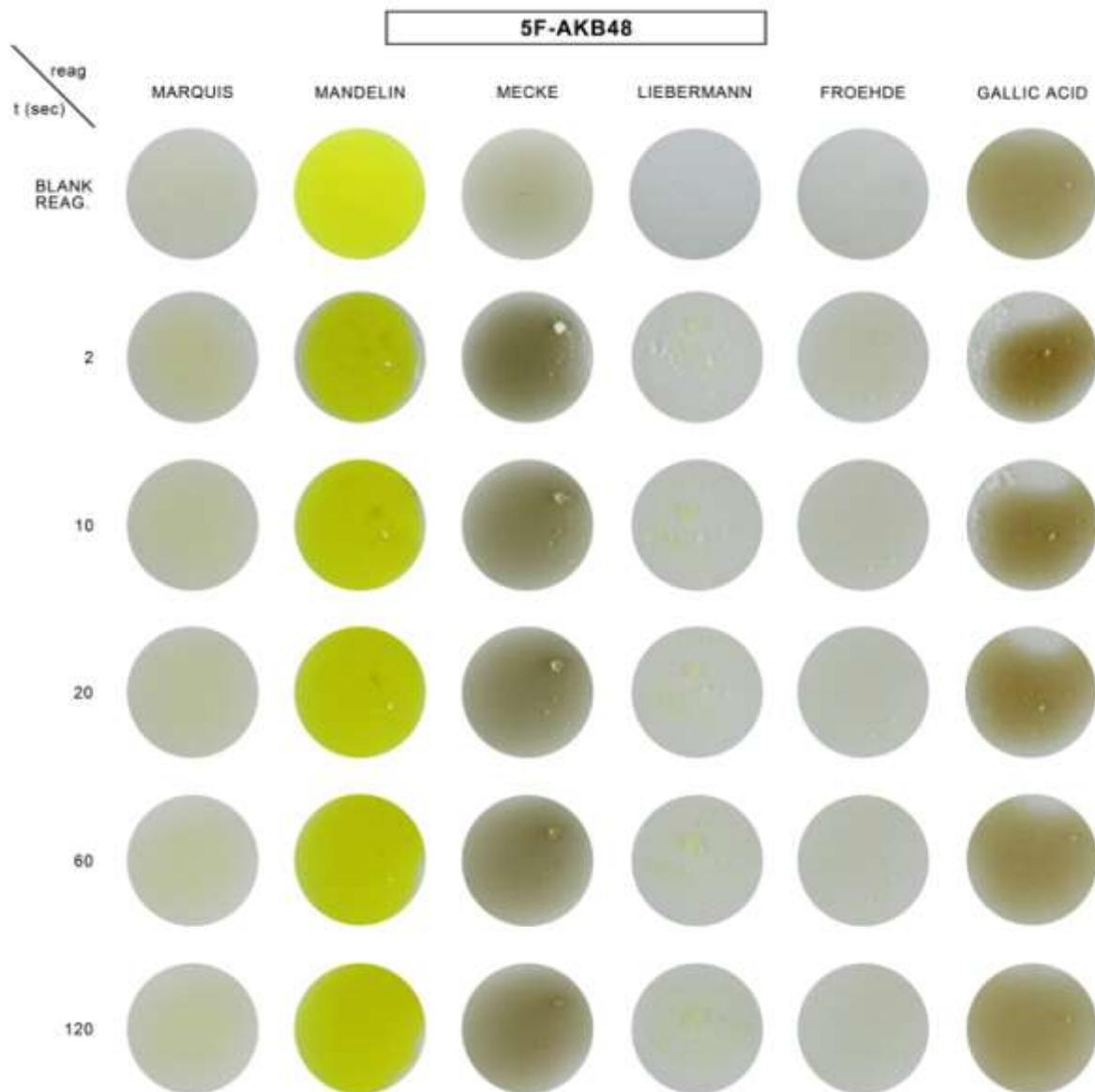
4.22. AB-FUBINACA



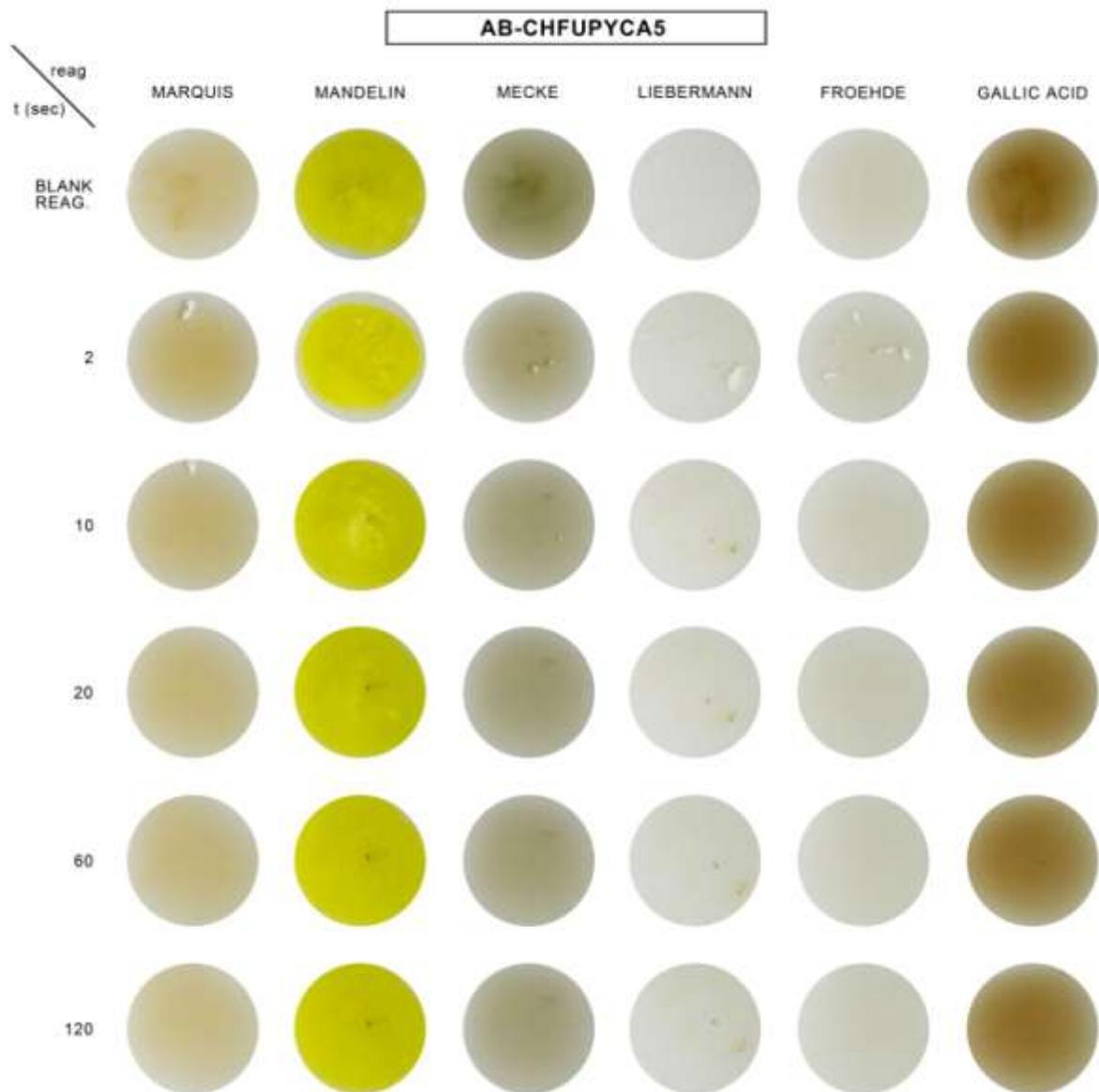
4.23. FUB-AKB48



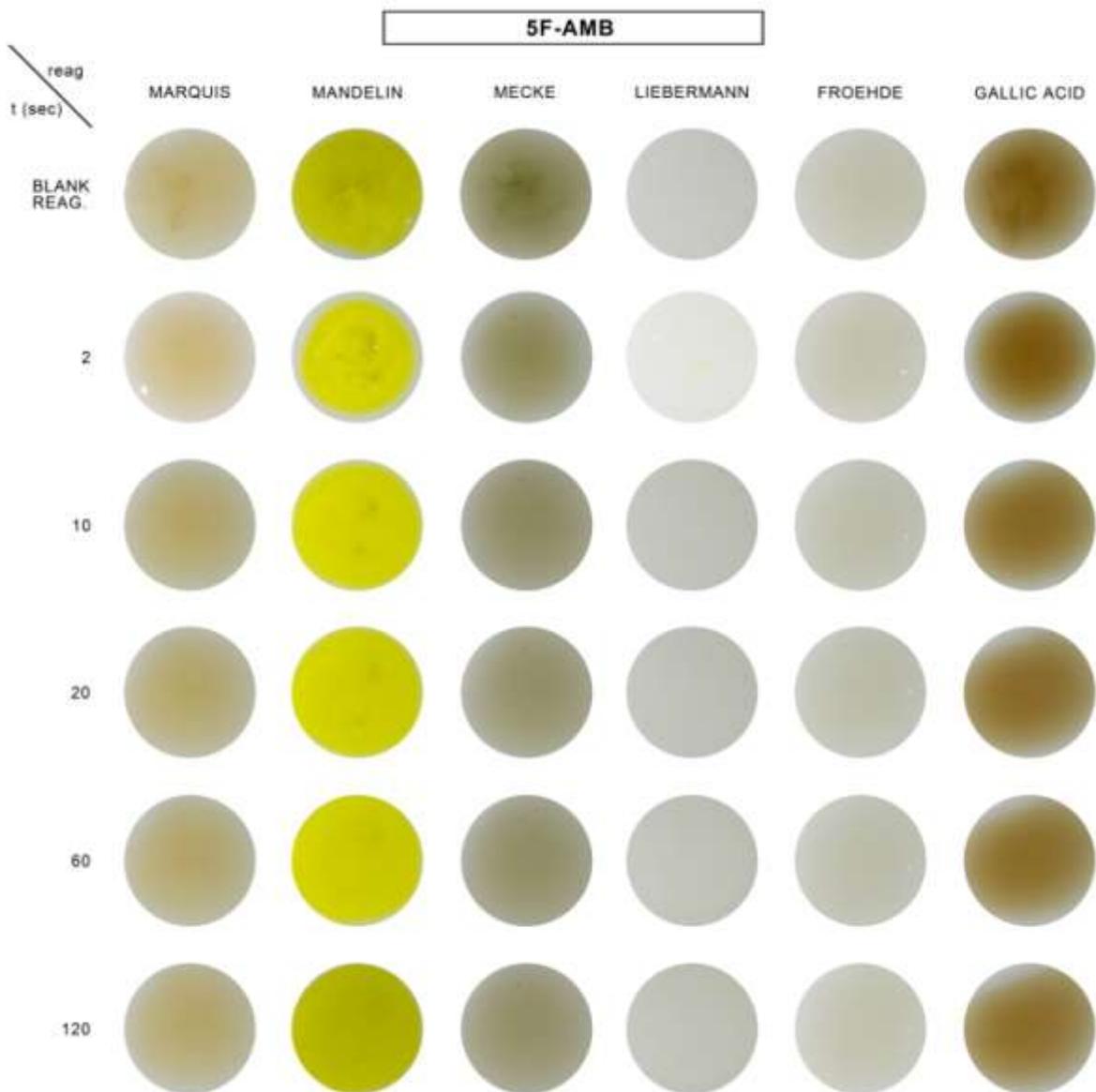
4.24. 5F-AKB48



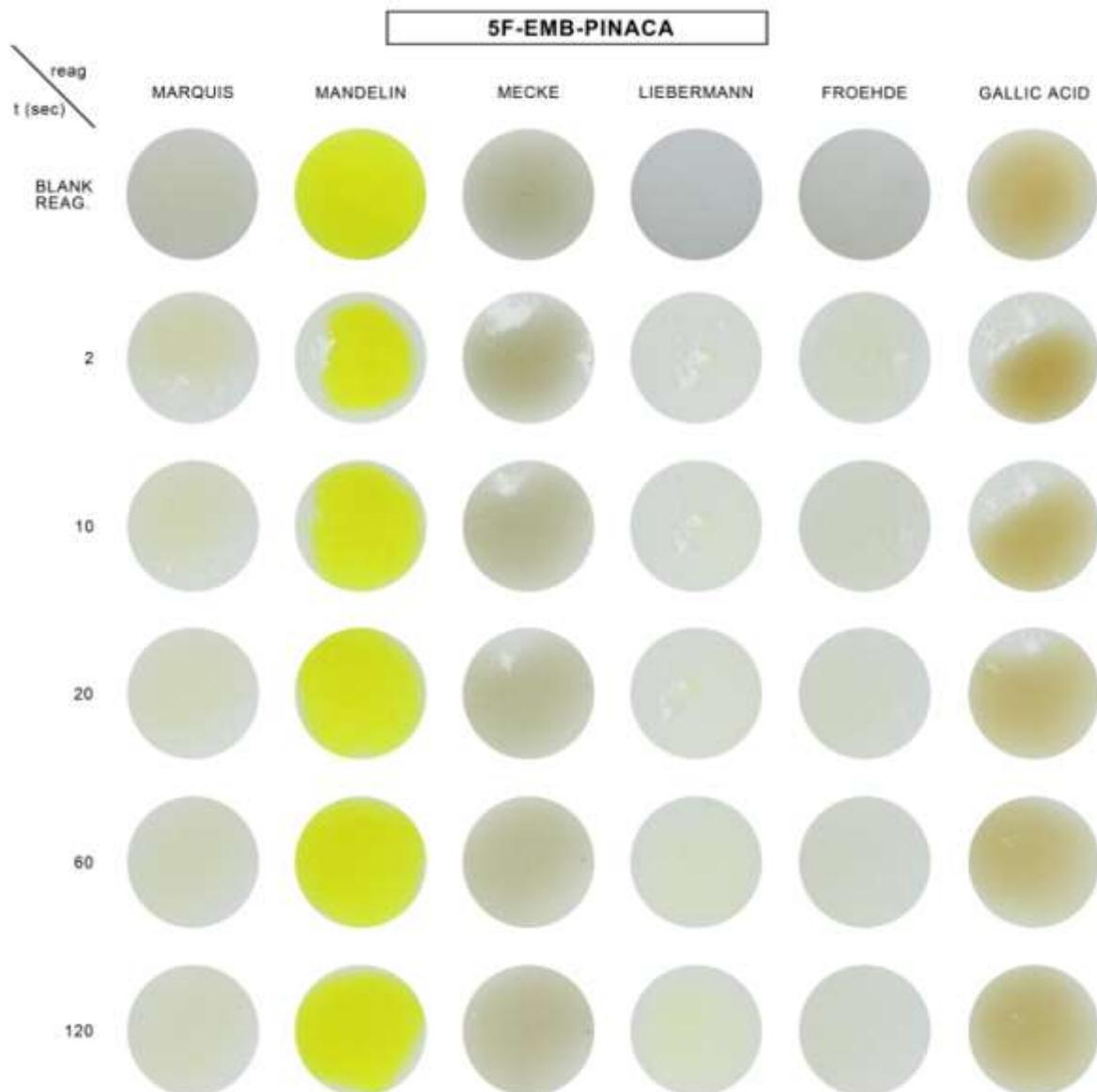
4.25. AB-CHFUPYCA



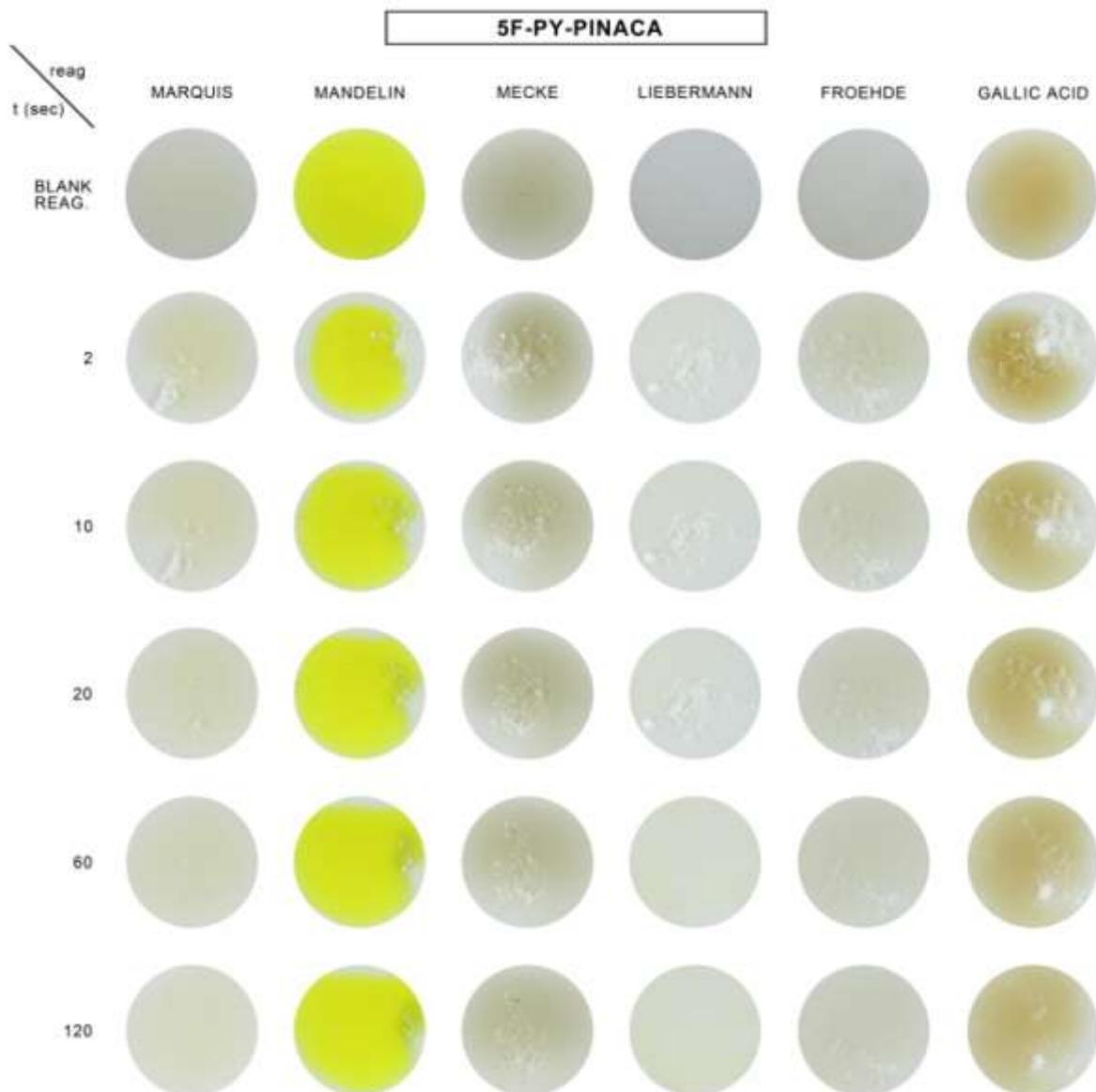
4.26. 5F-AMB



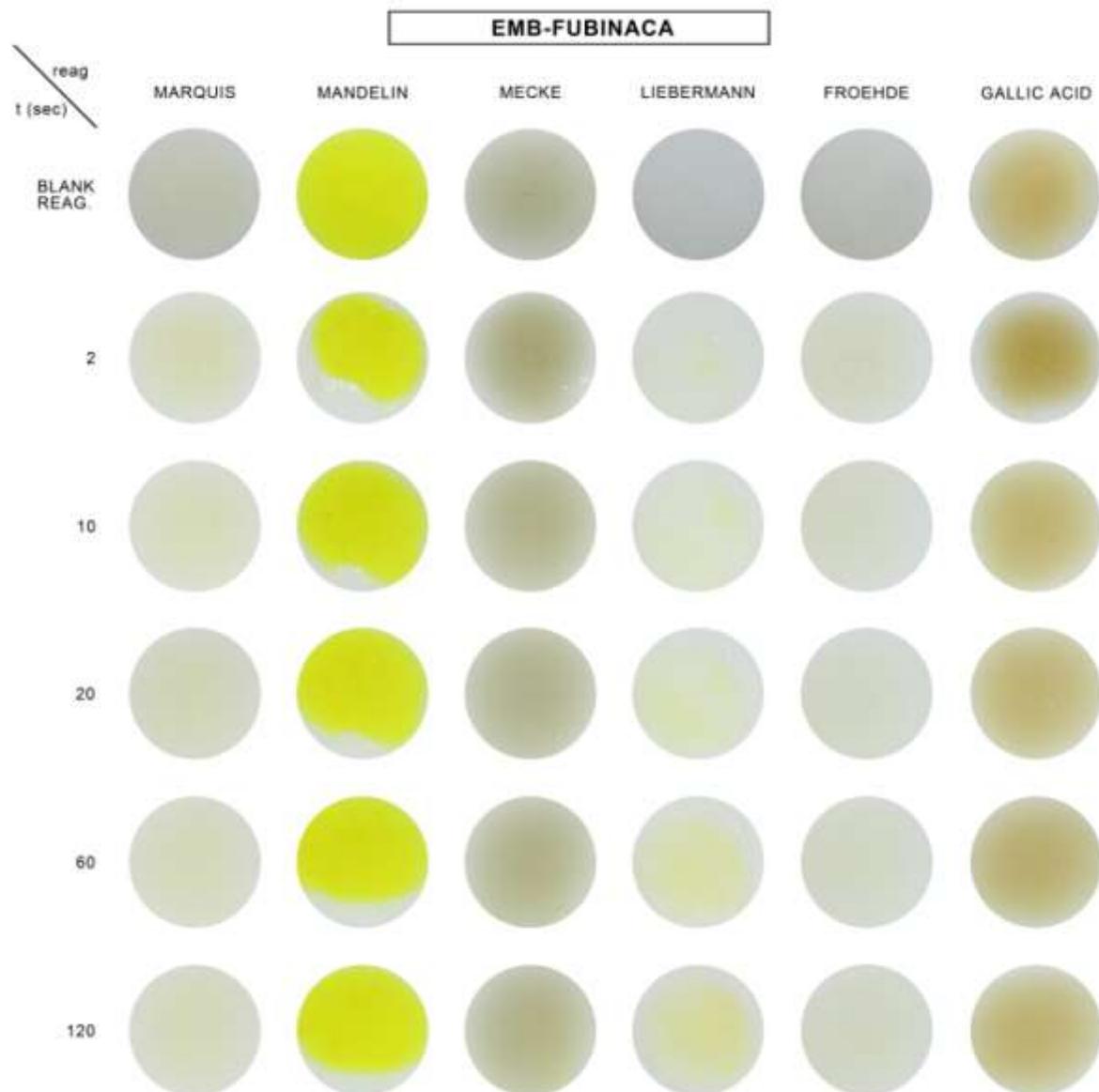
4.27. 5F-EMB-PINACA



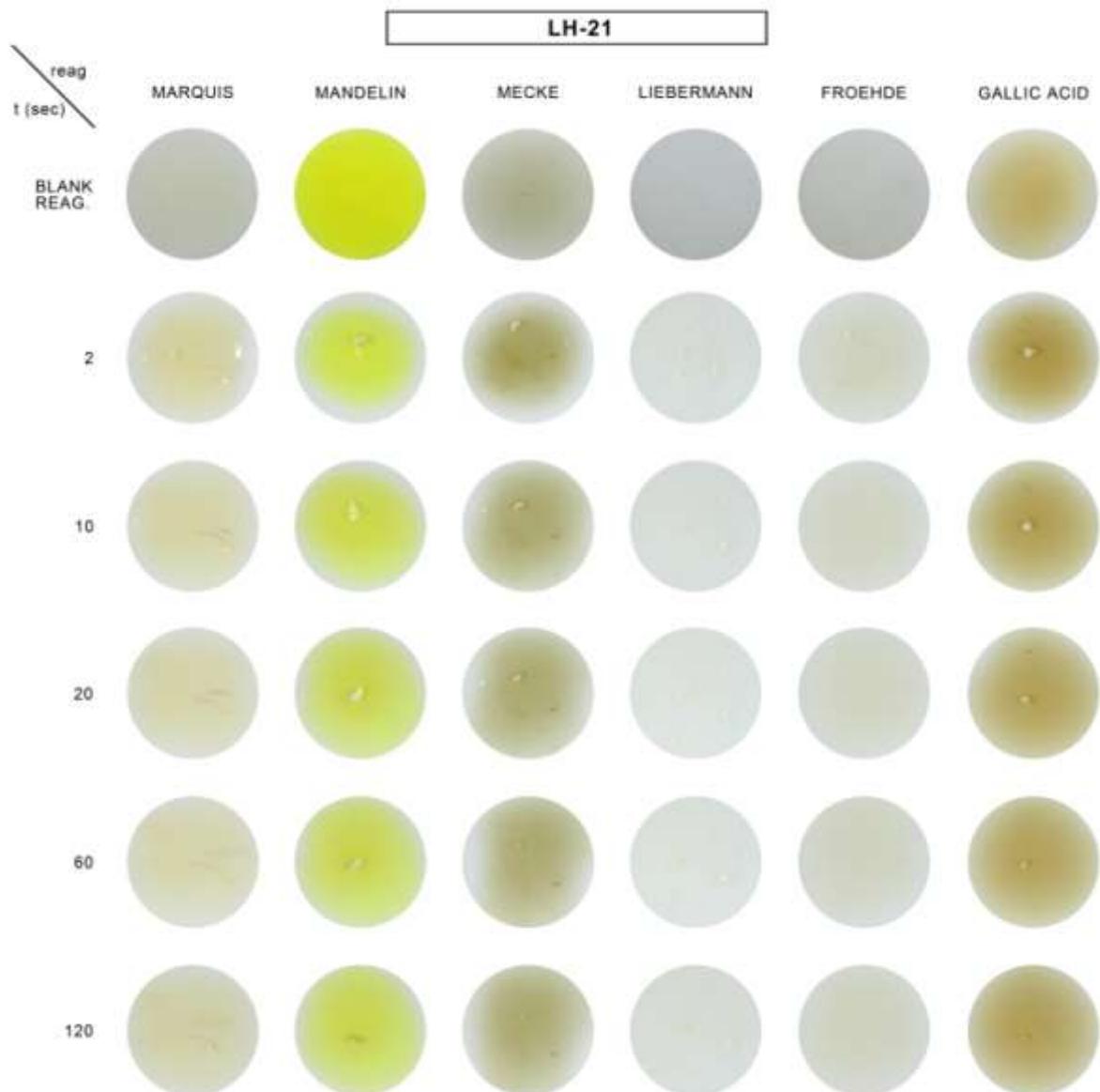
4.28. 5F-PY-PINACA



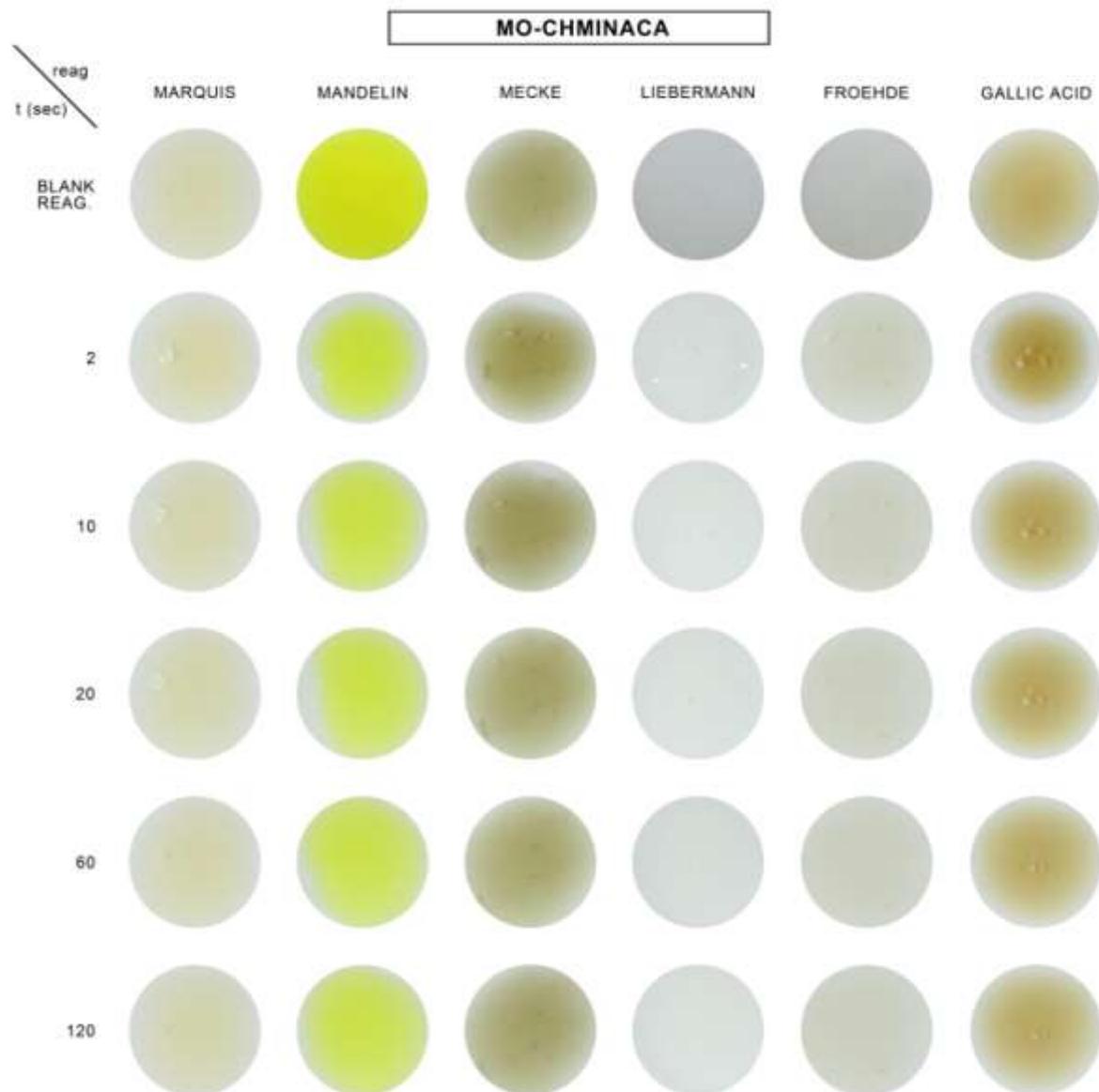
4.29. EMB-FUBINACA



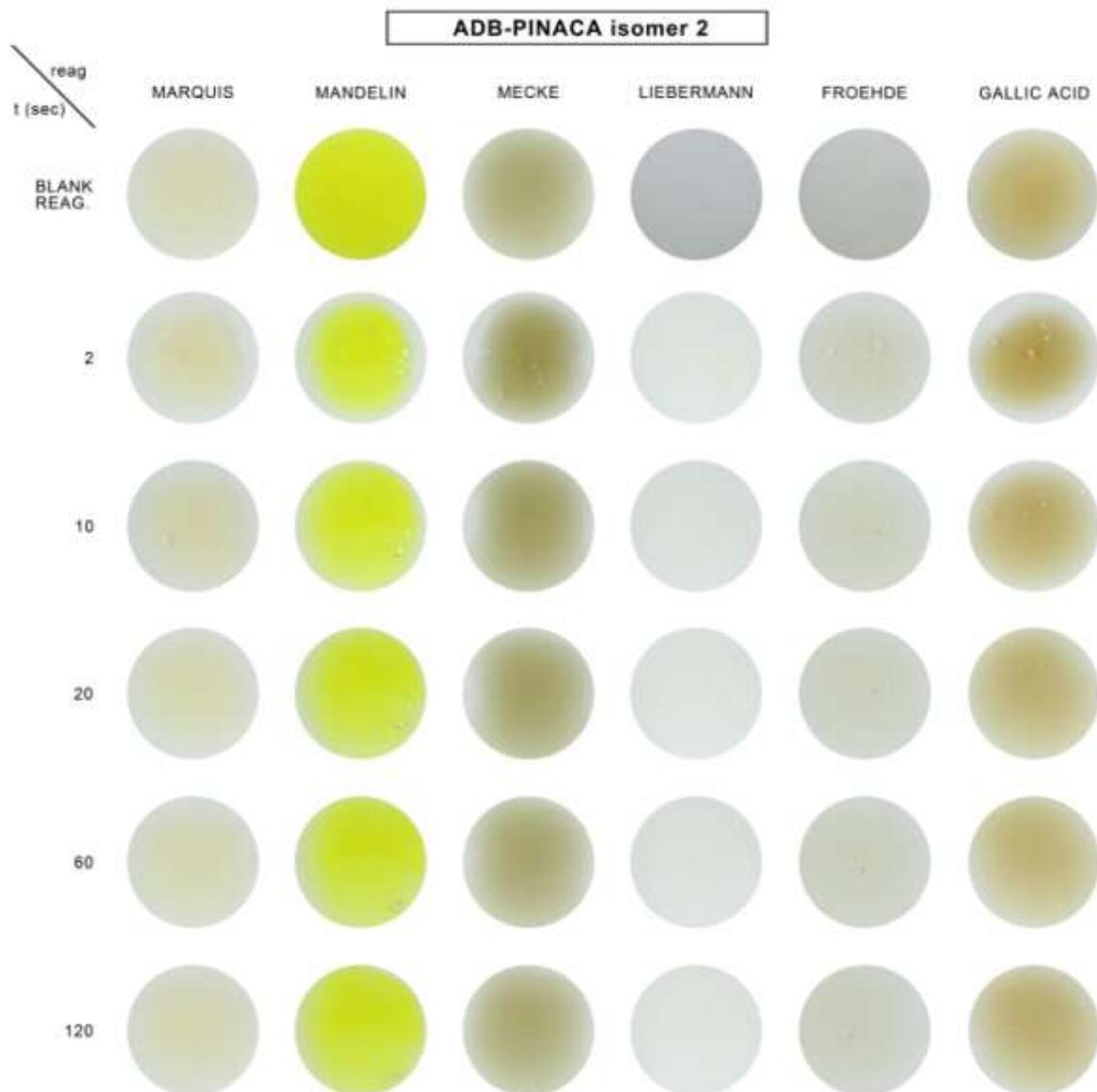
4.30. LH-21



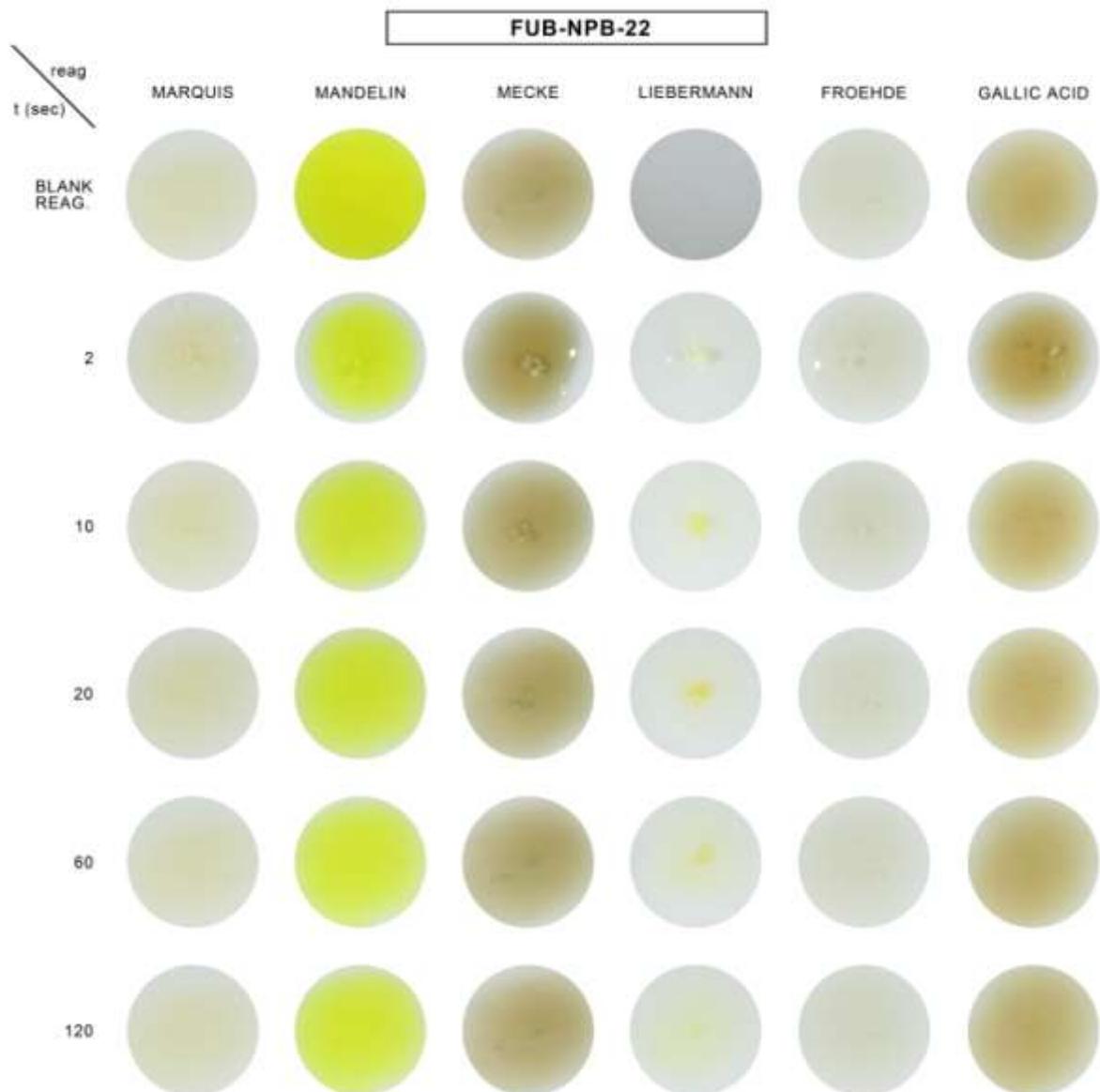
4.31. MO-CHMINACA



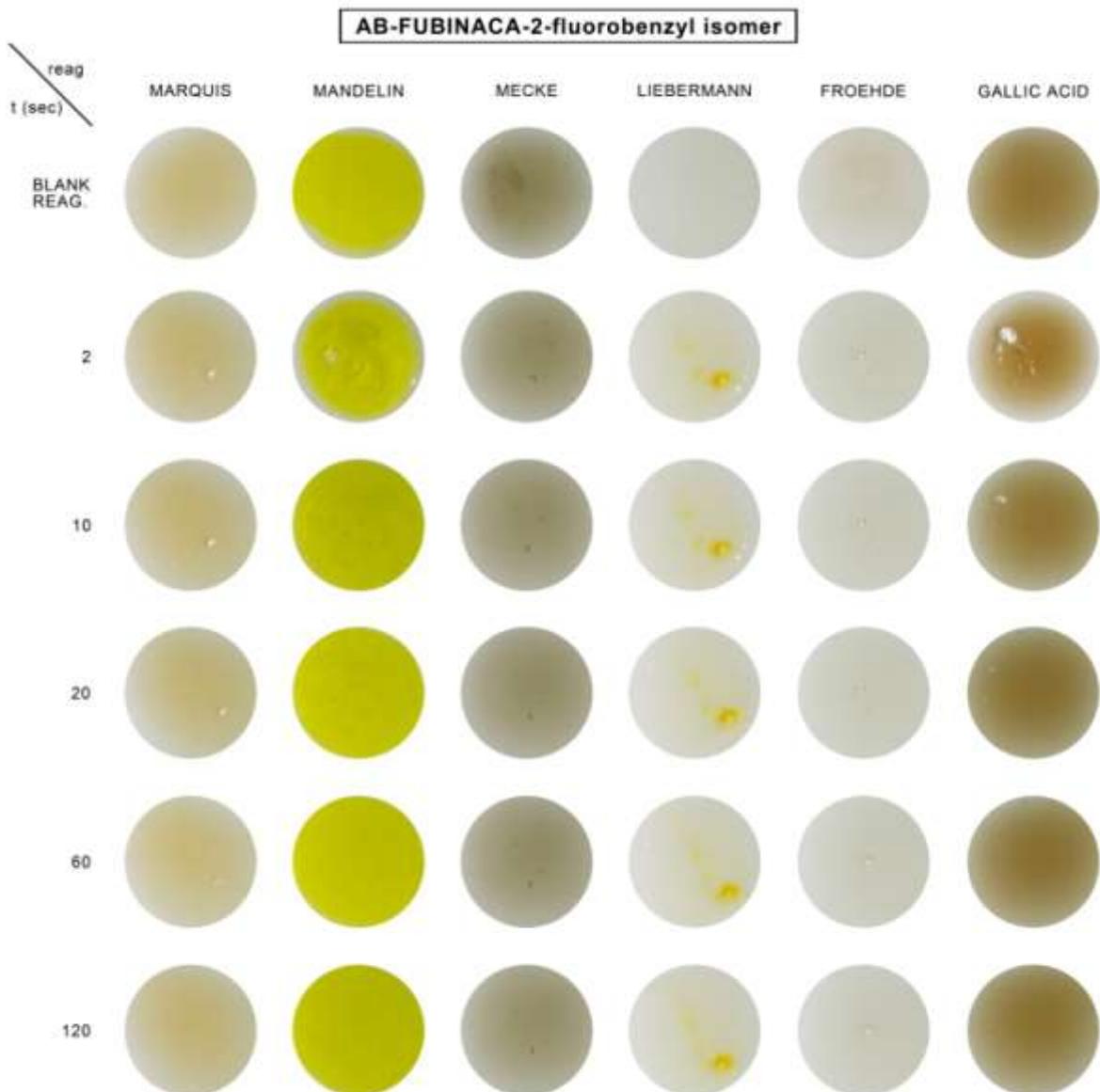
4.32. ADB-PINACA isomer 2



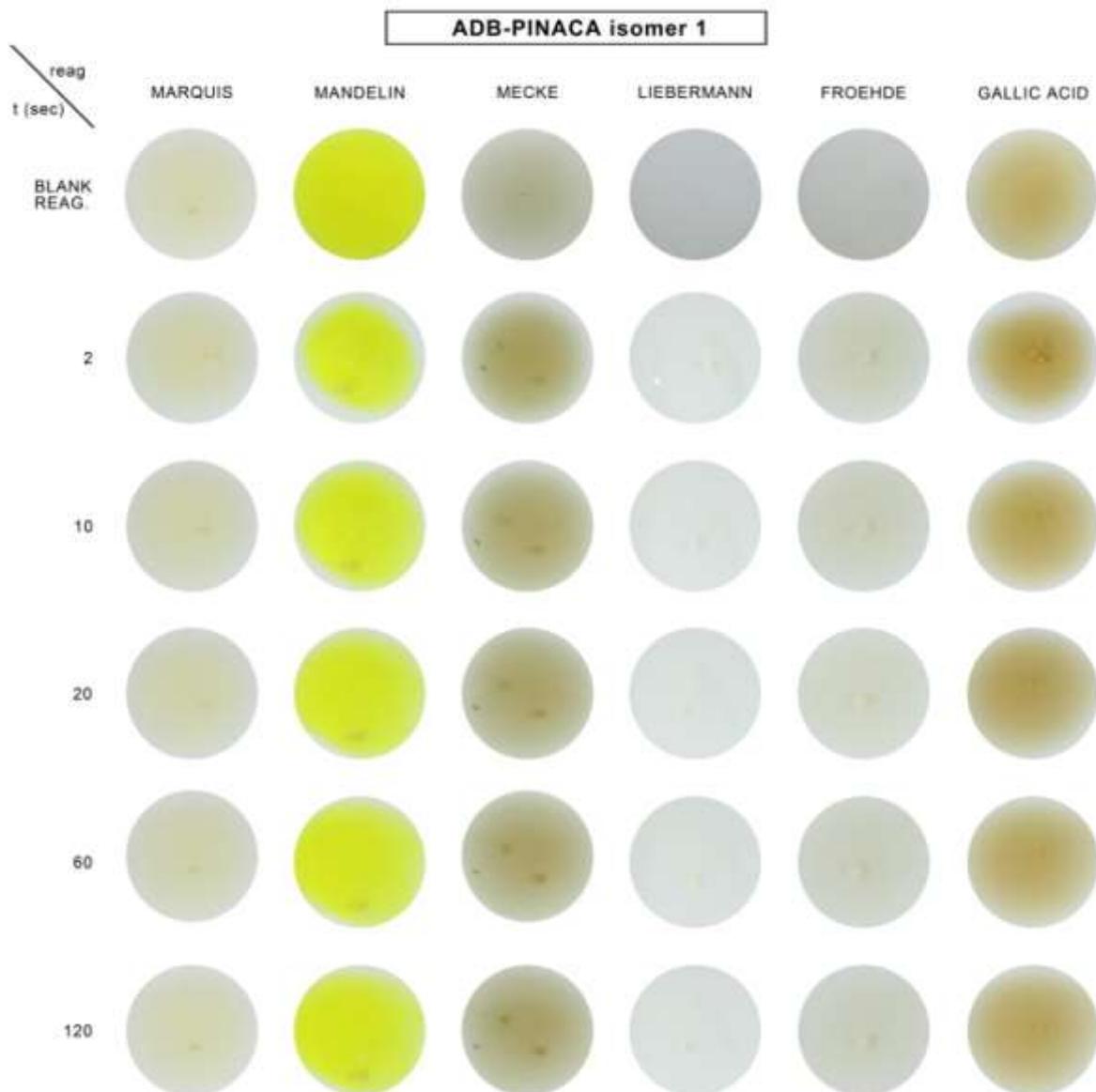
4.33. FUB-NPB-22



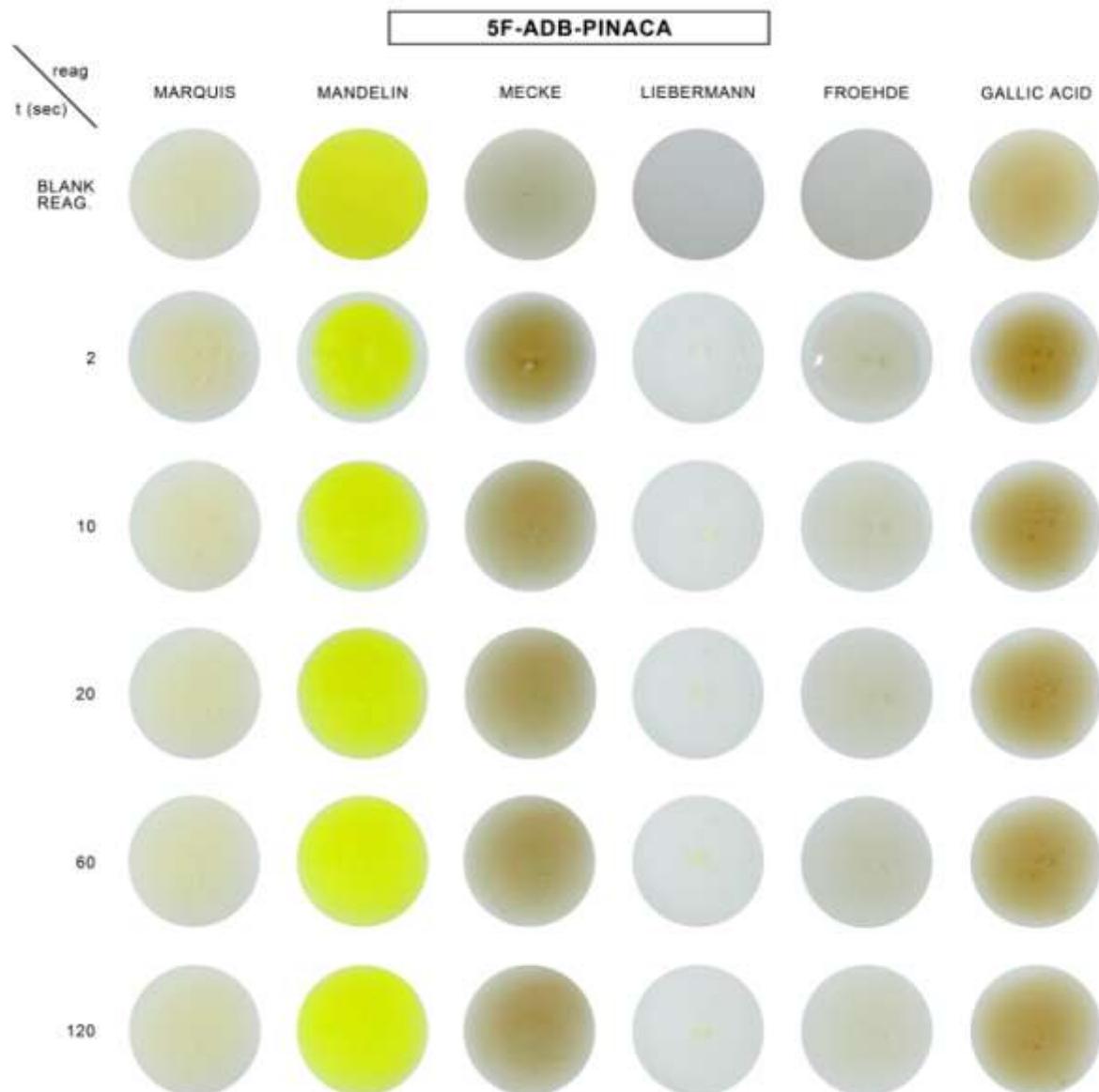
4.34. AB-FUBINACA 2-fluorobenzyl isomer



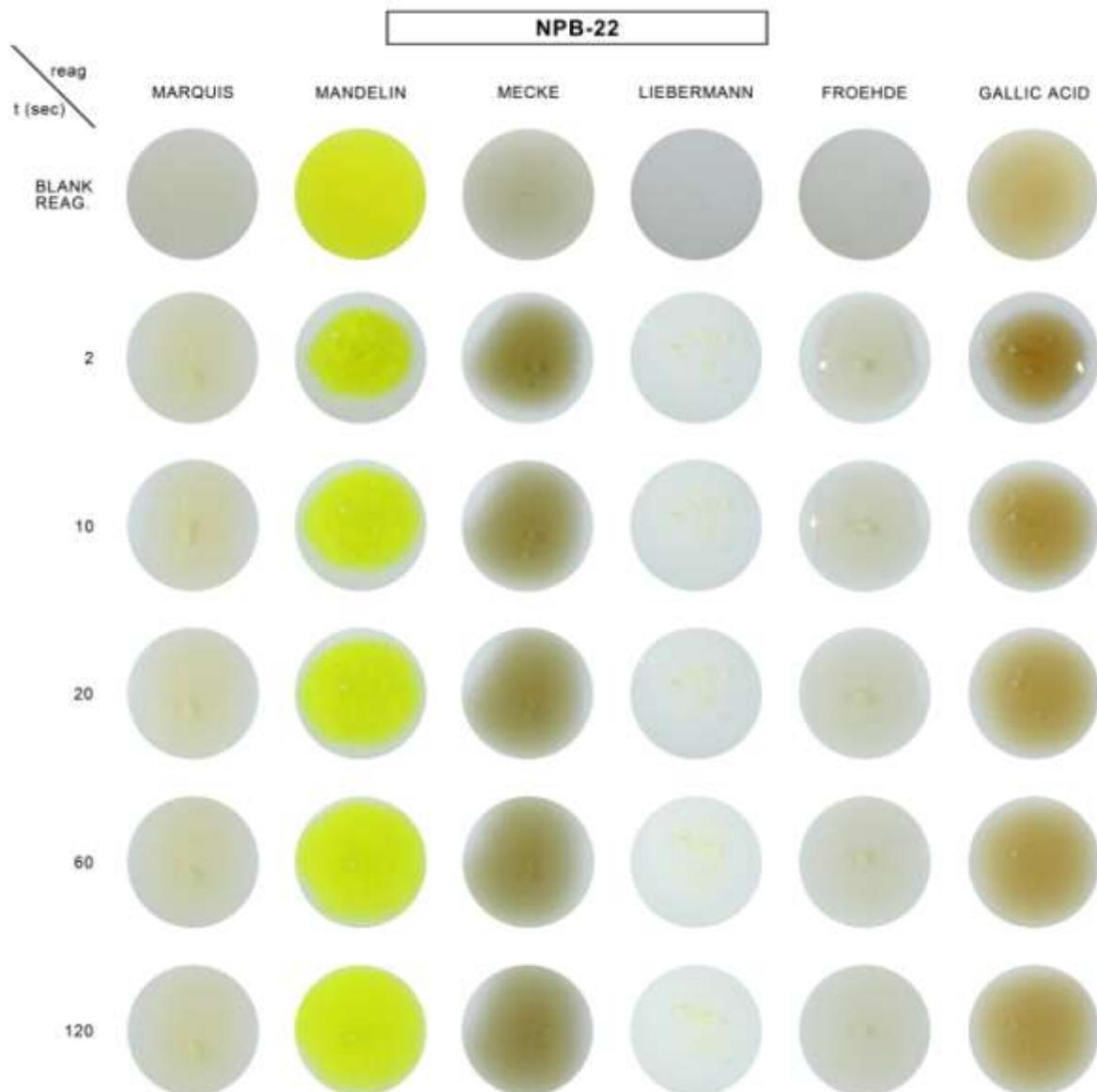
4.35. ADB-PINACA isomer 1



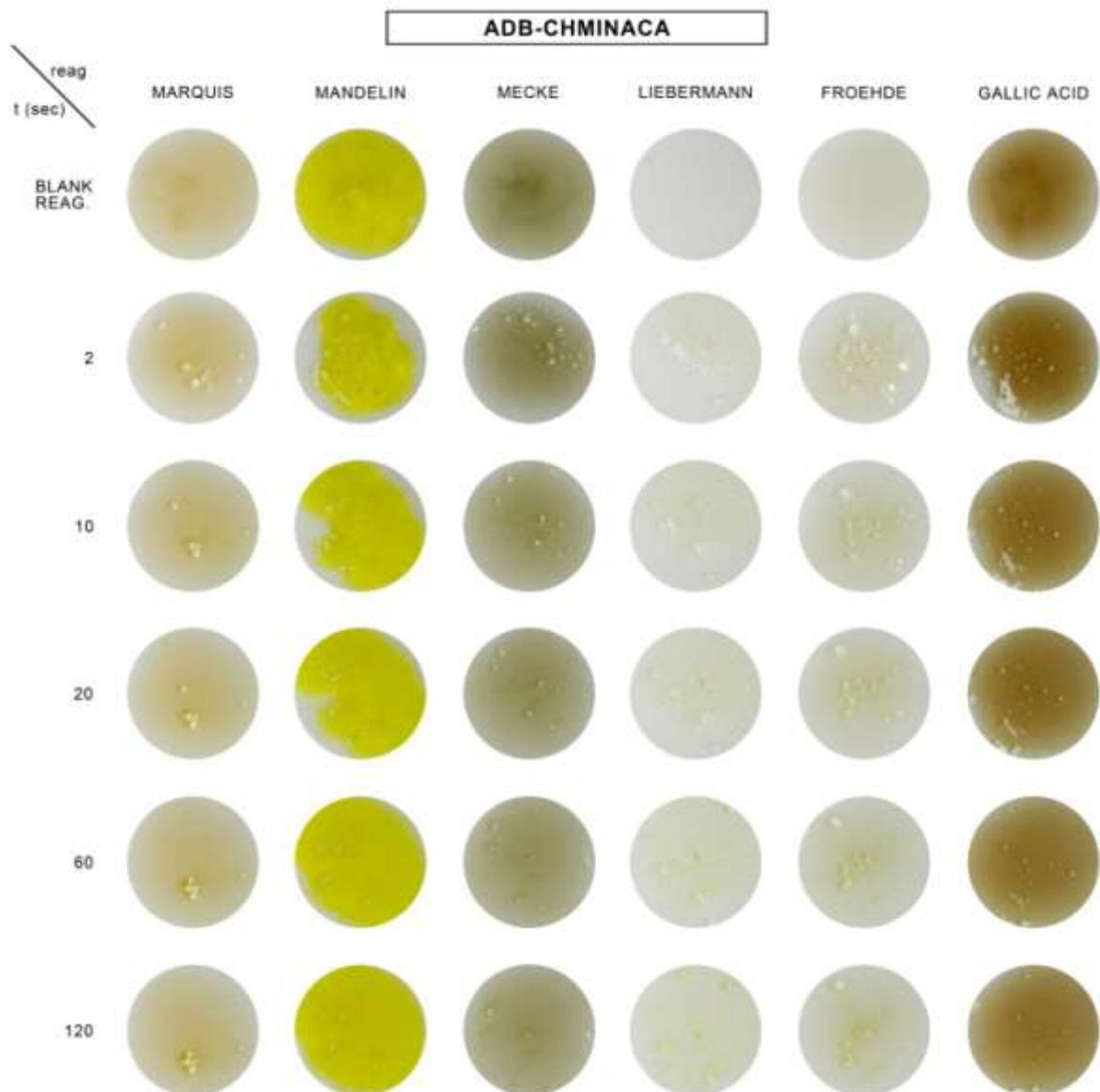
4.36. 5F-ADB-PINACA



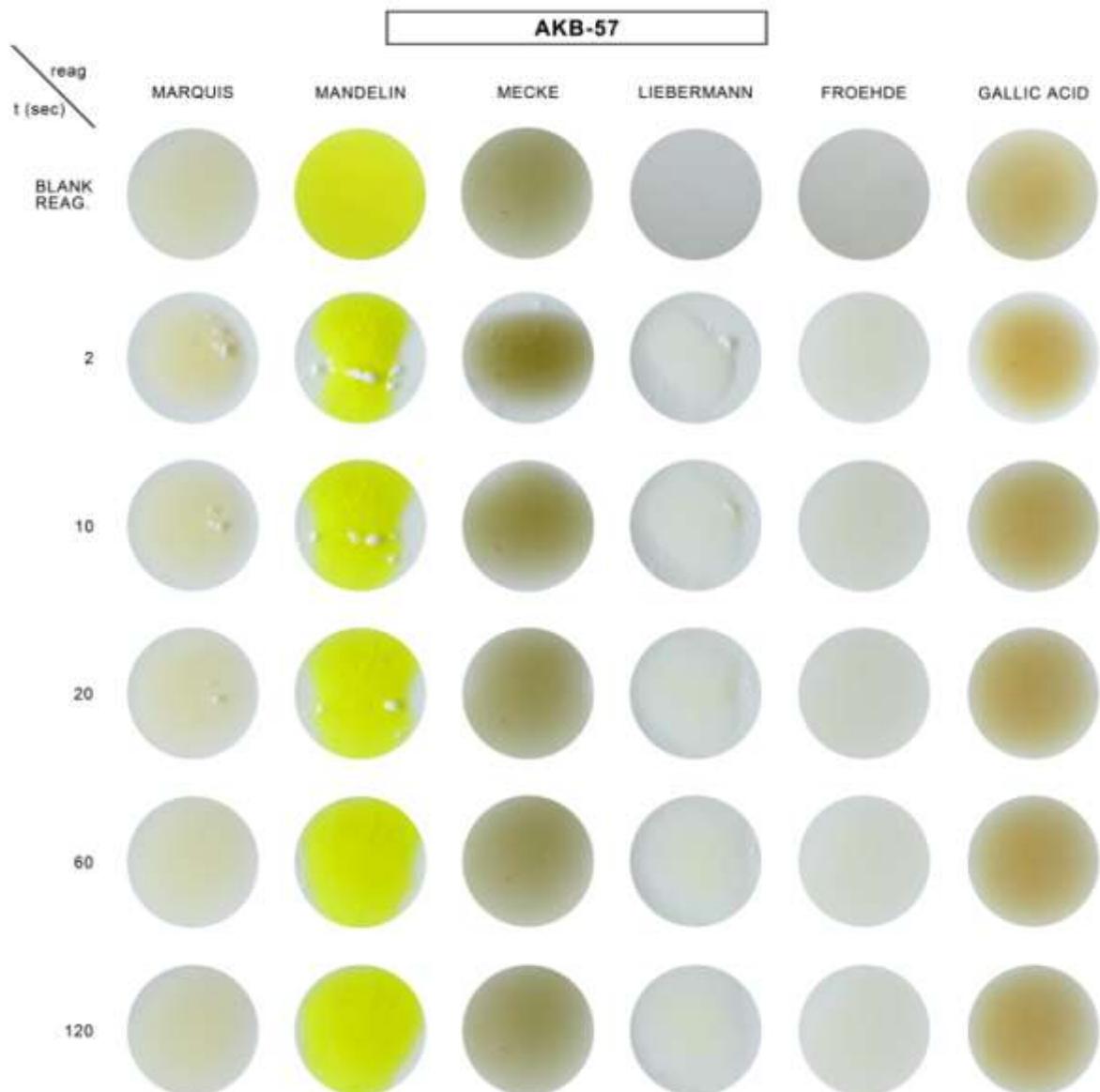
4.37. NPB-22



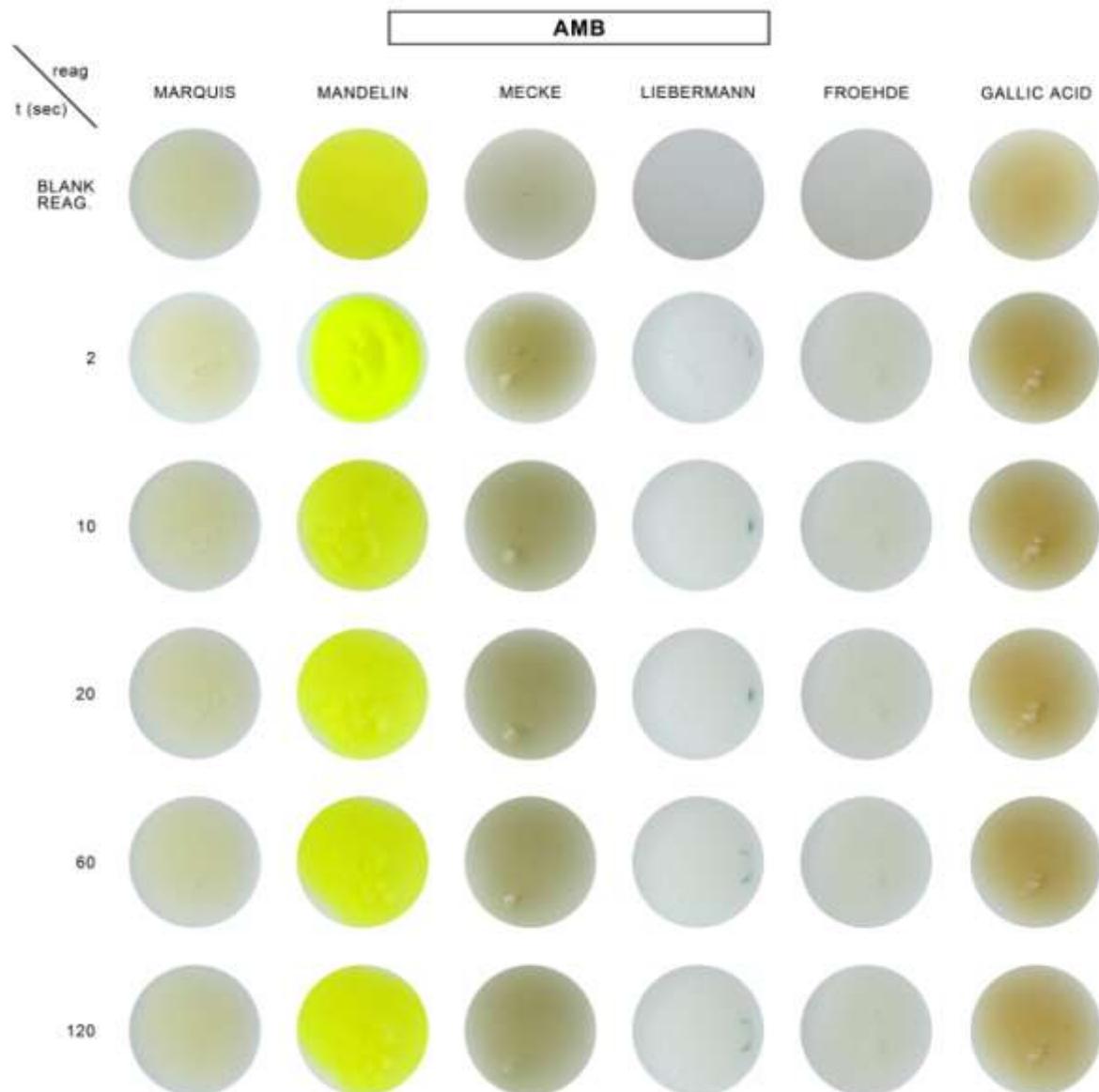
4.38. ADB-CHMINACA



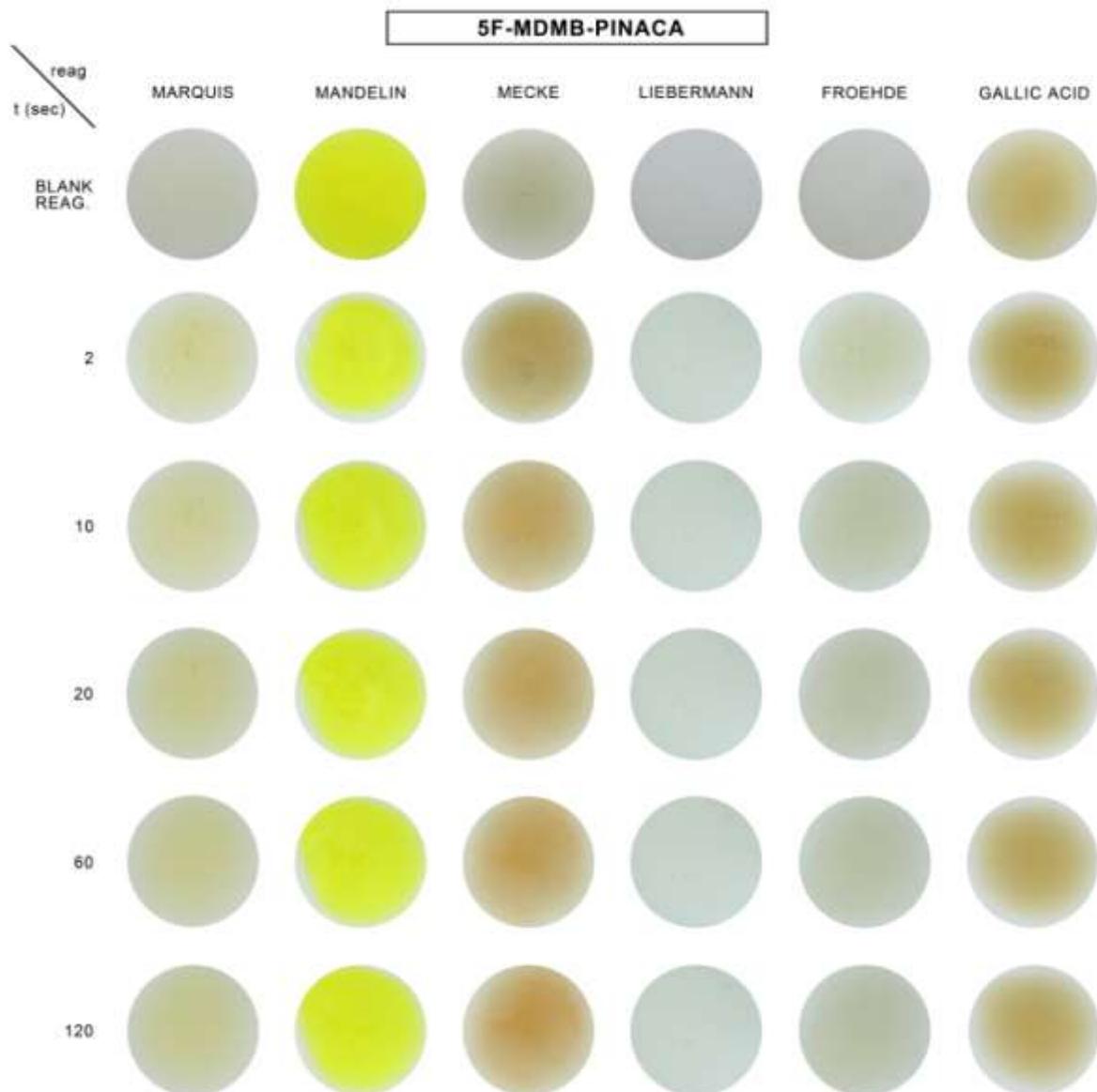
4.39. AKB-57



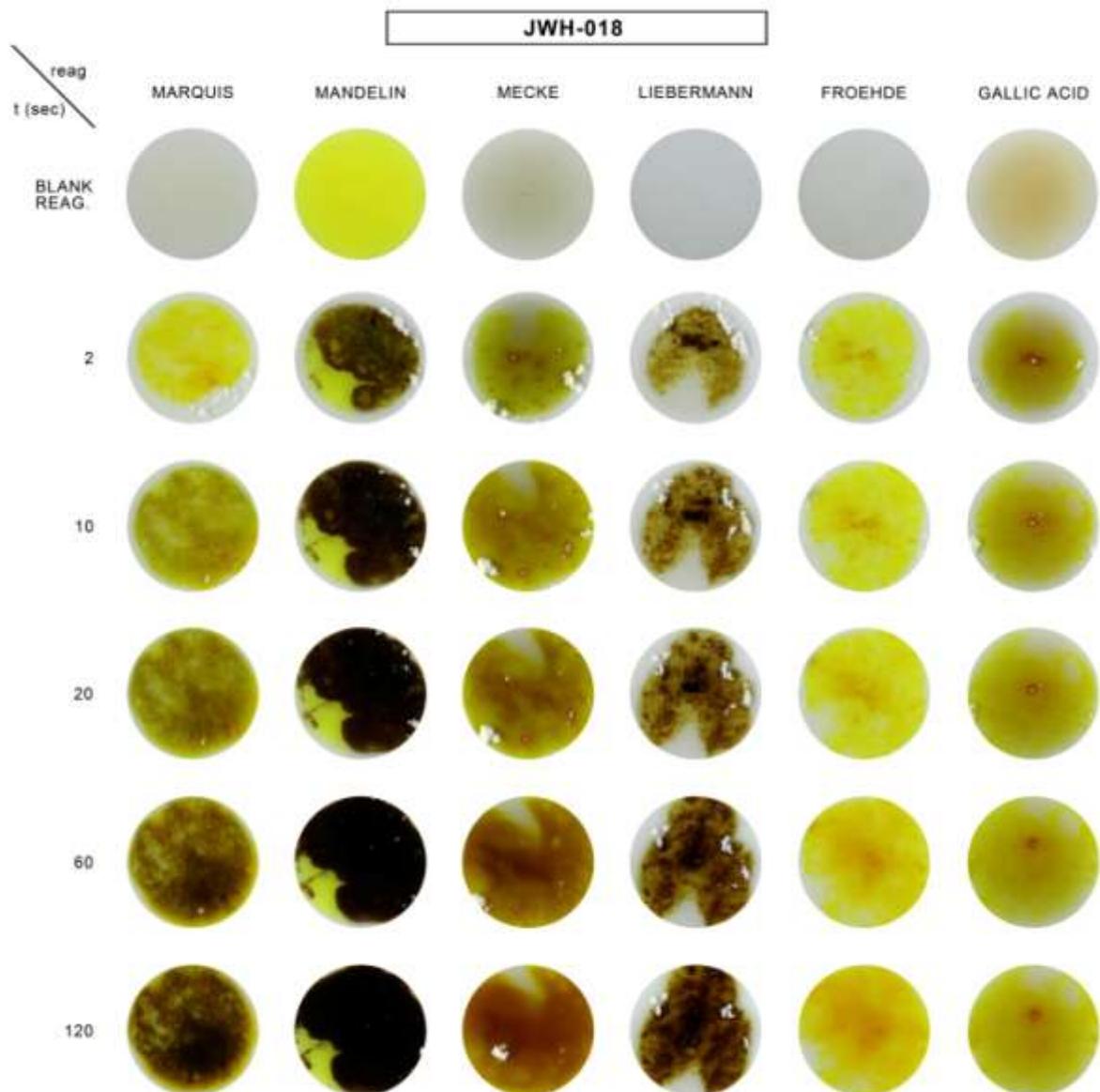
4.40. AMB



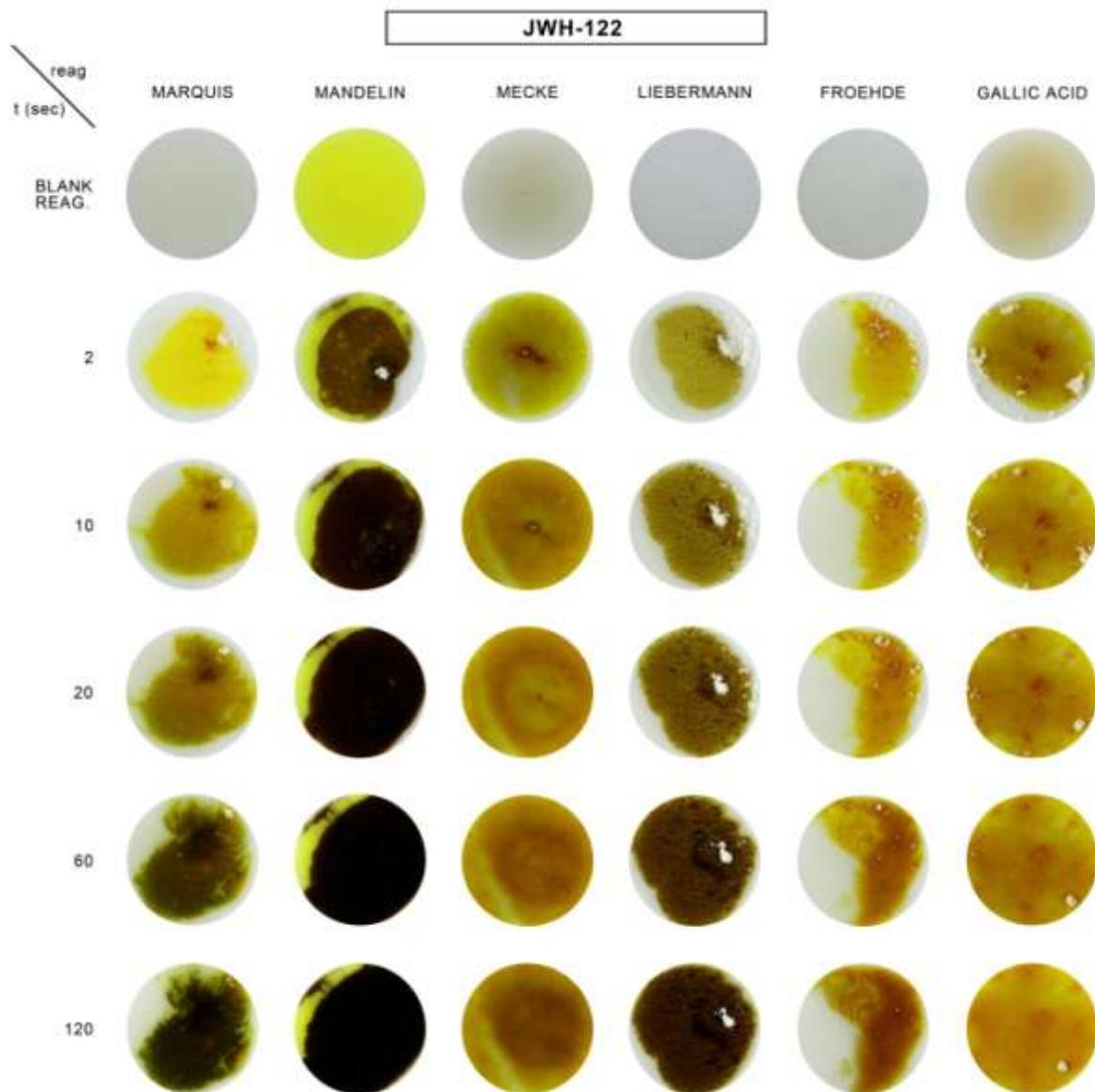
4.41. 5F-MDMB-PINACA



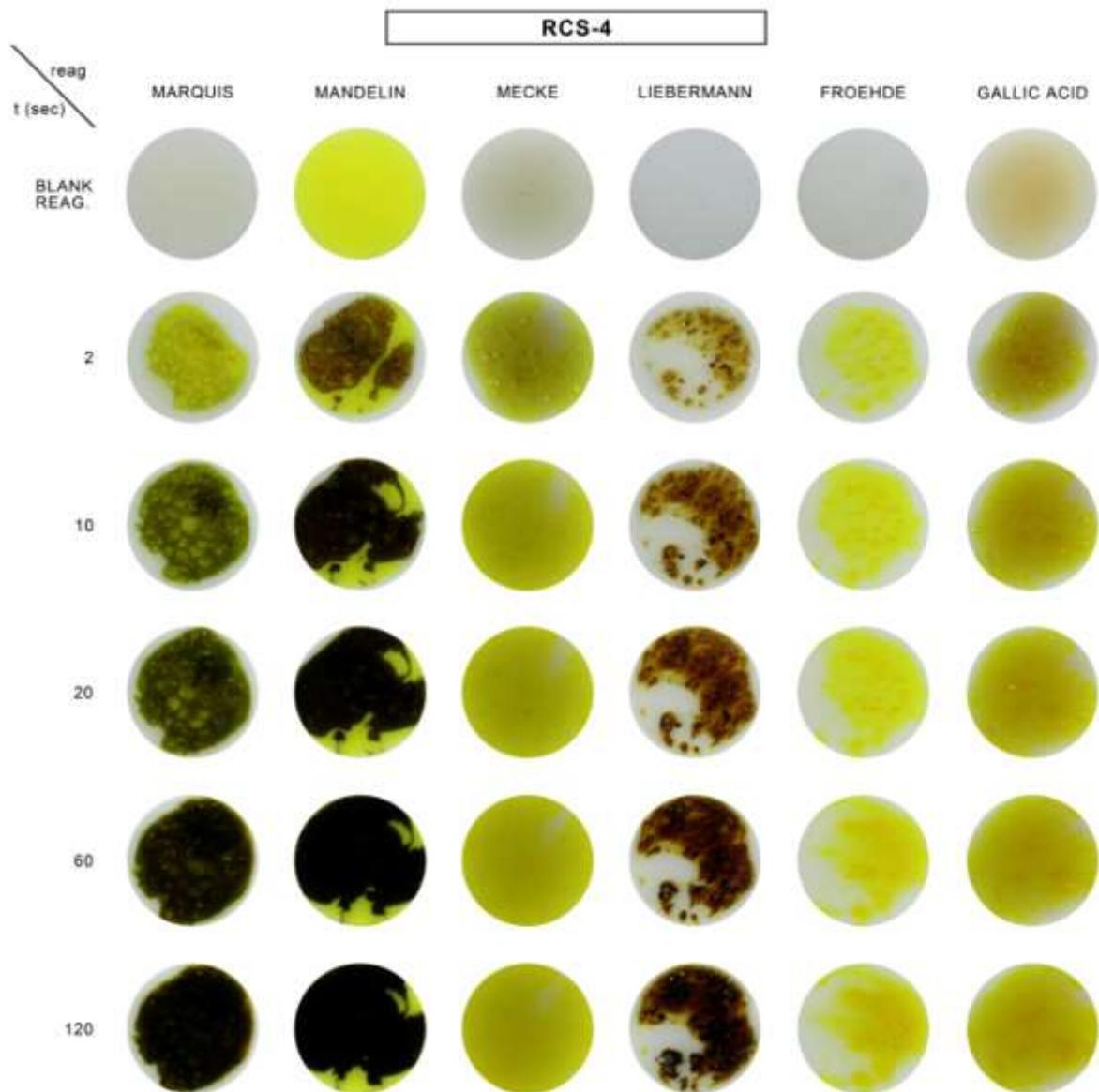
4.42. JWH-018



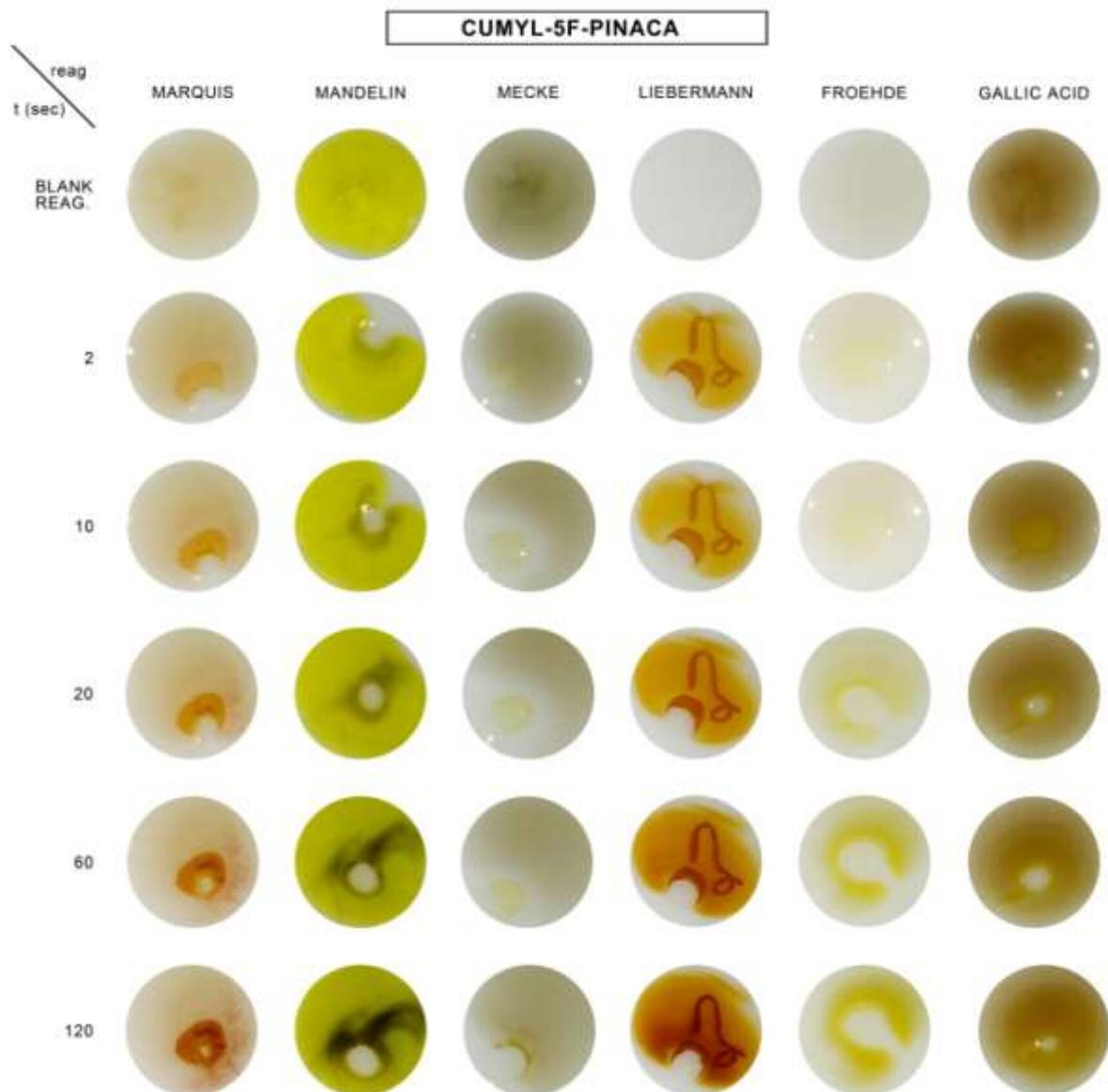
4.43. JWH-122



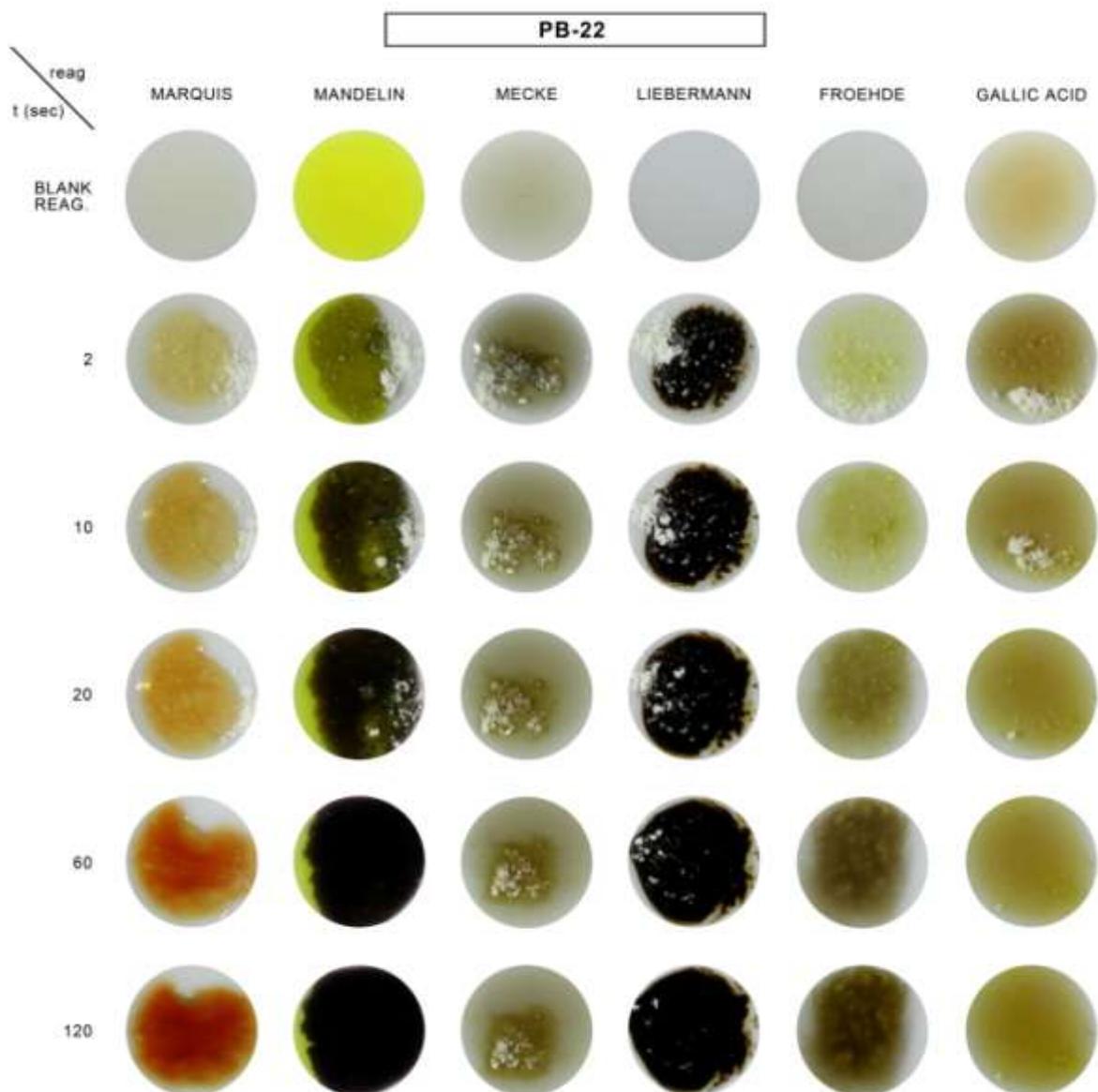
4.44. RCS-4



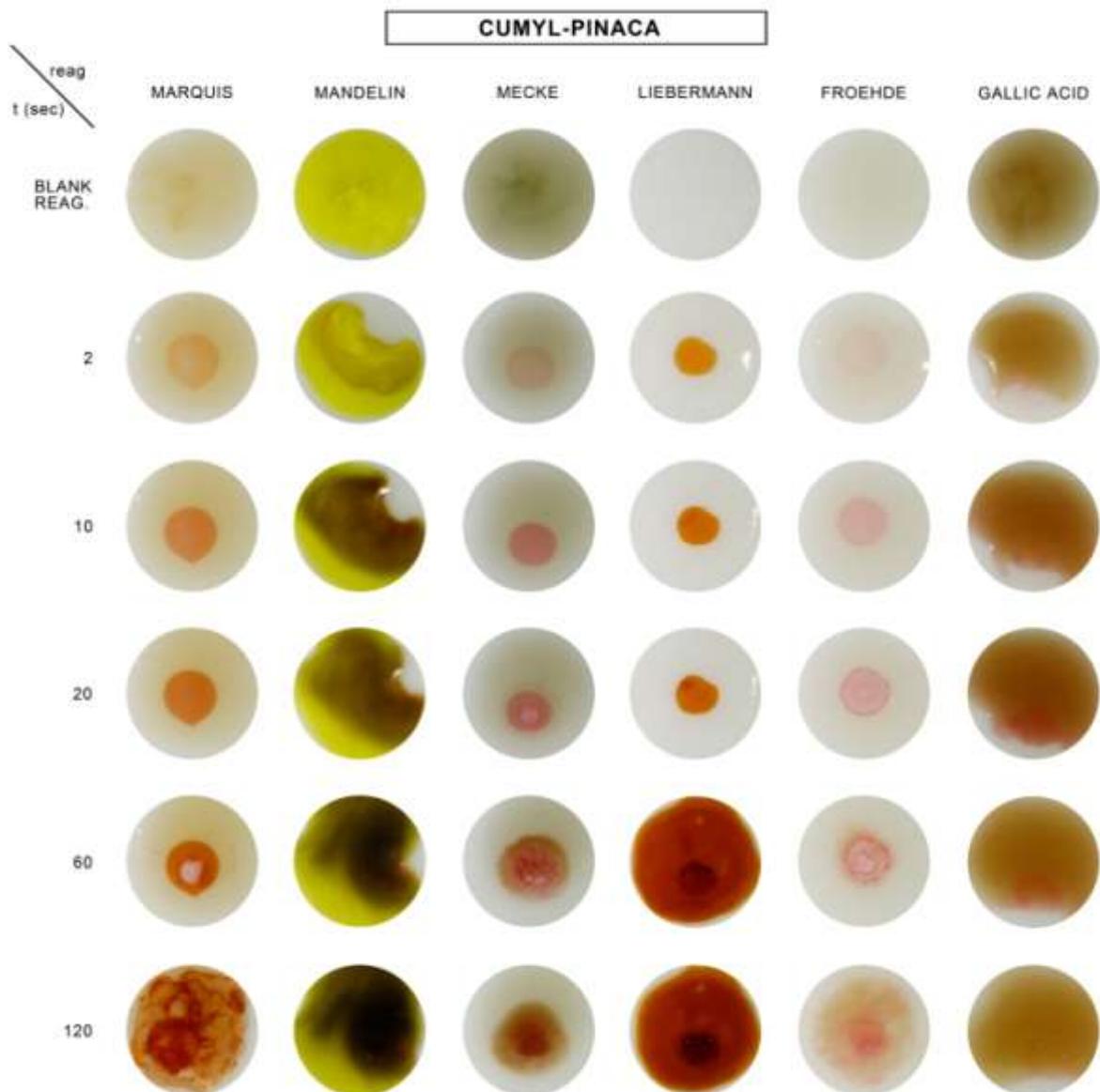
4.45. CUMYL-5F-PINACA



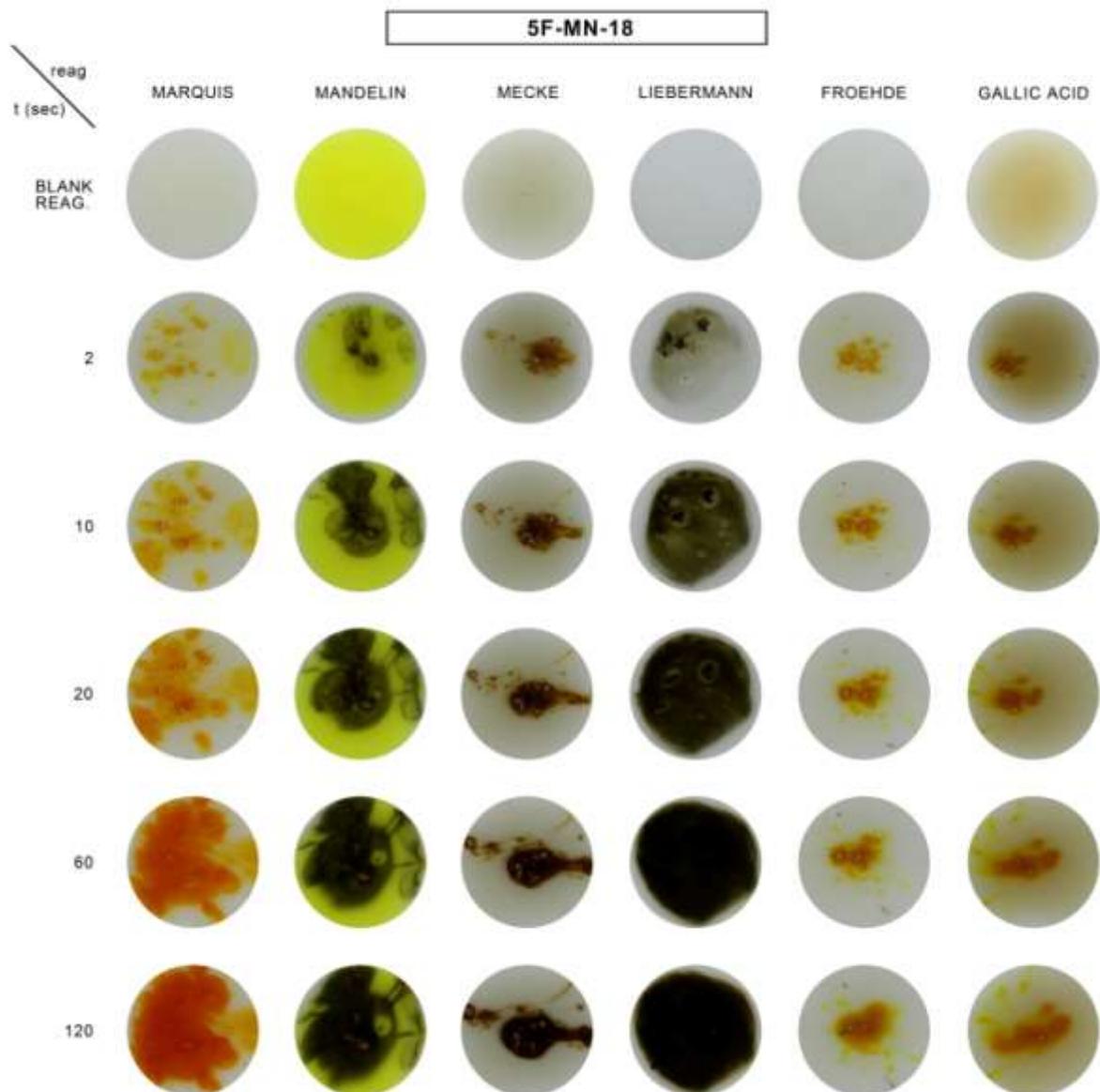
4.46. PB-22



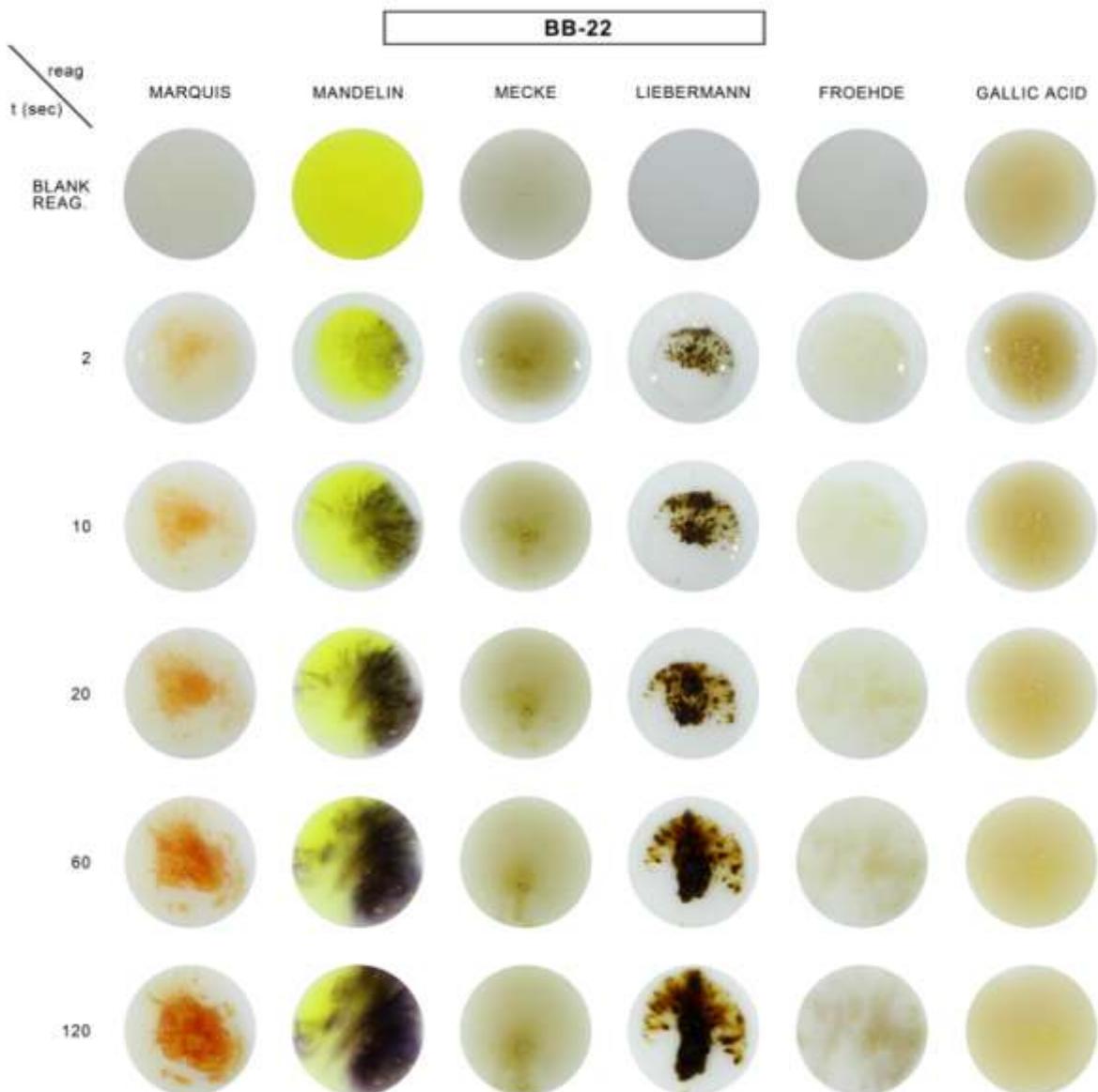
4.47. CUMYL-PINACA



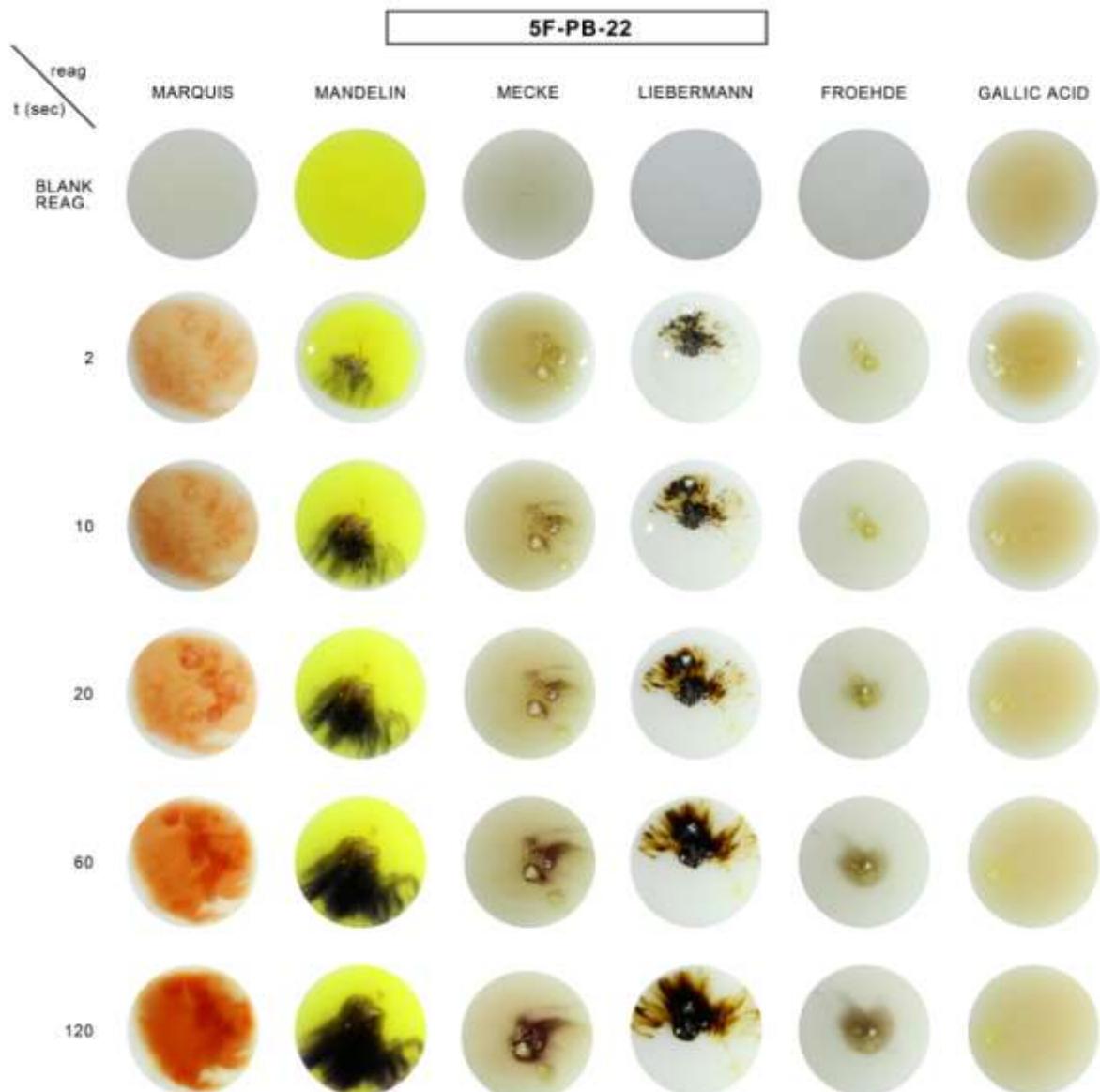
4.48. 5F-MN-18



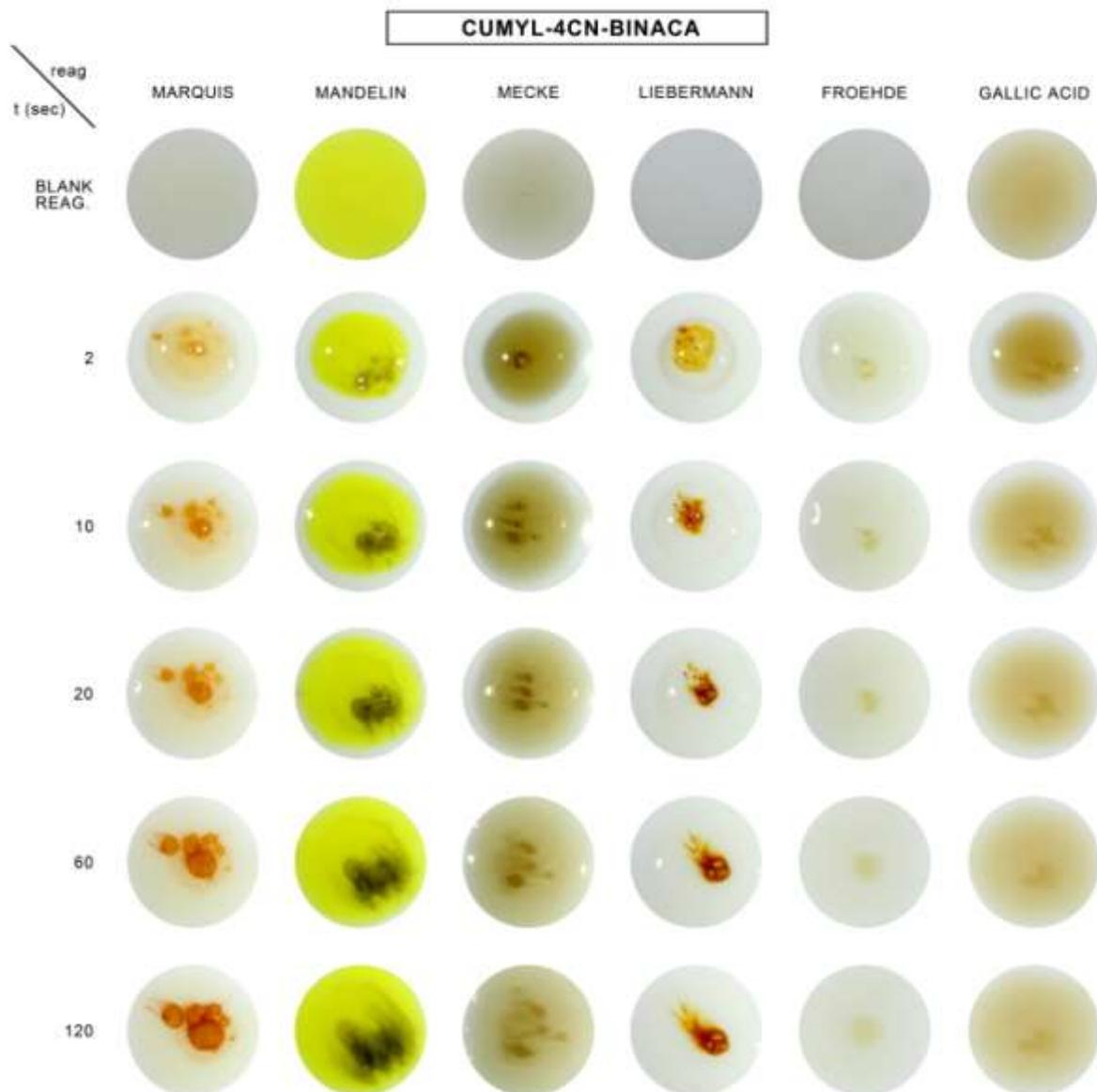
4.49. BB-22



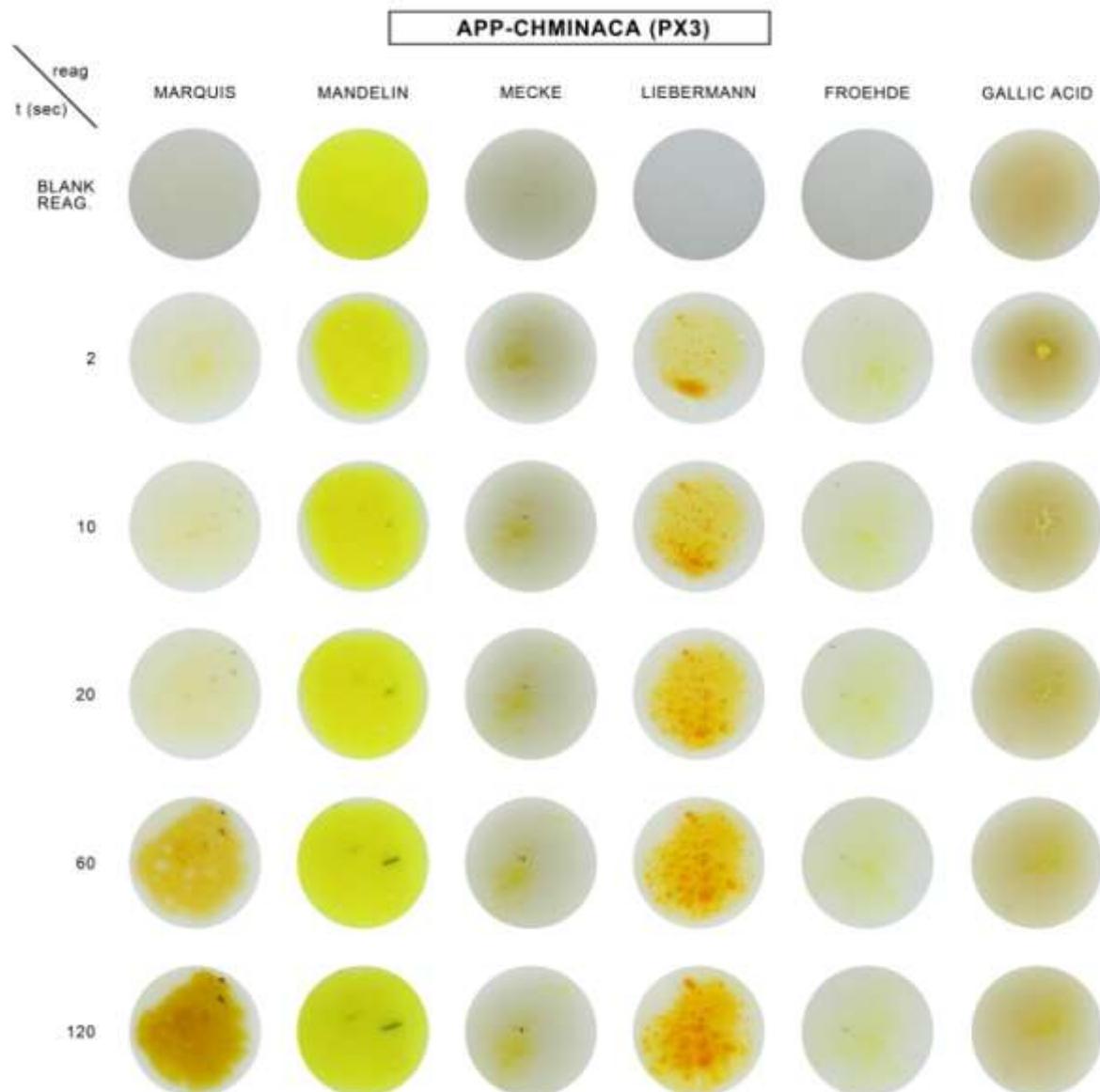
4.50. 5F-PB-22



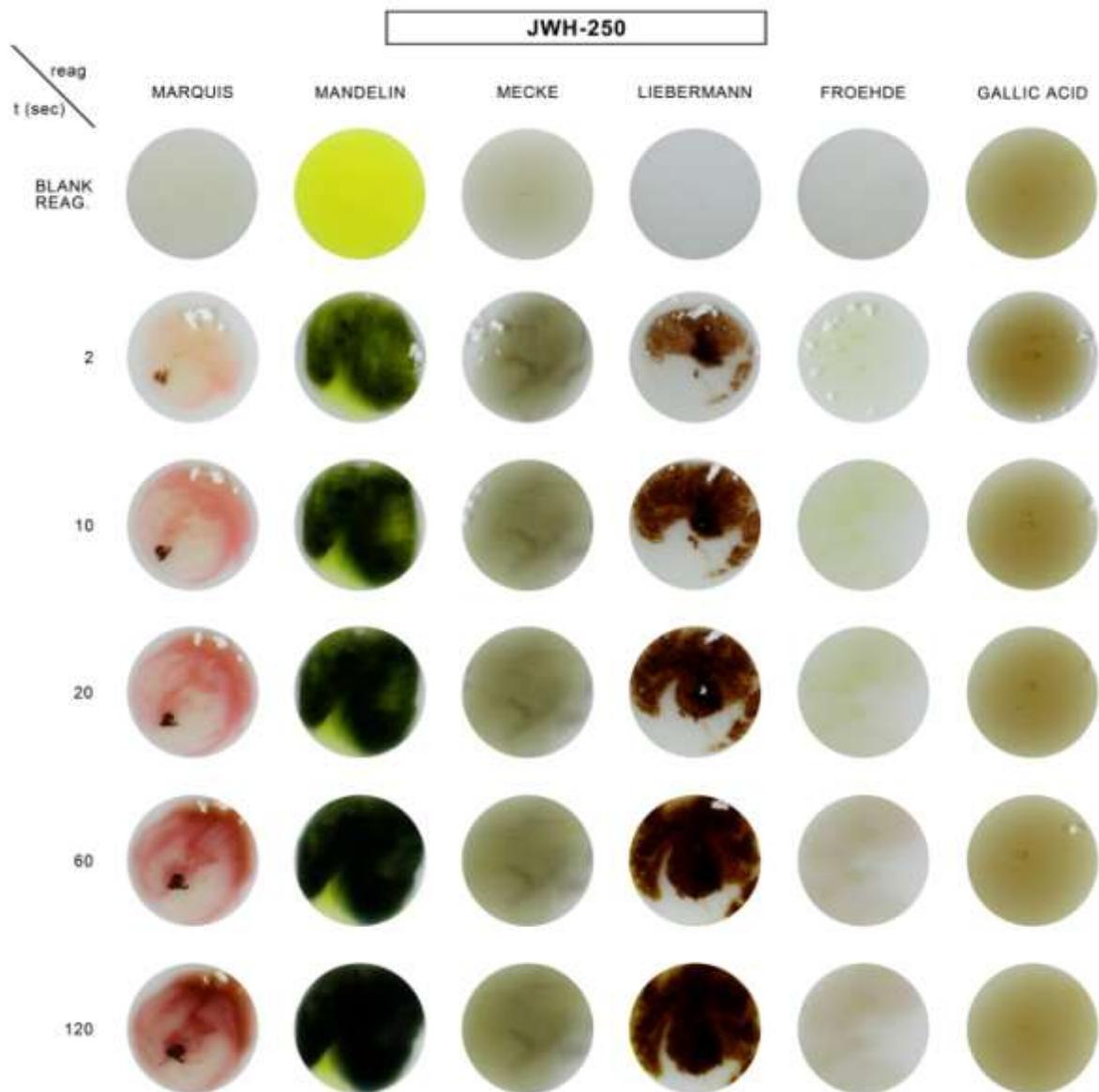
4.51. CUMYL-4CN-BINACA



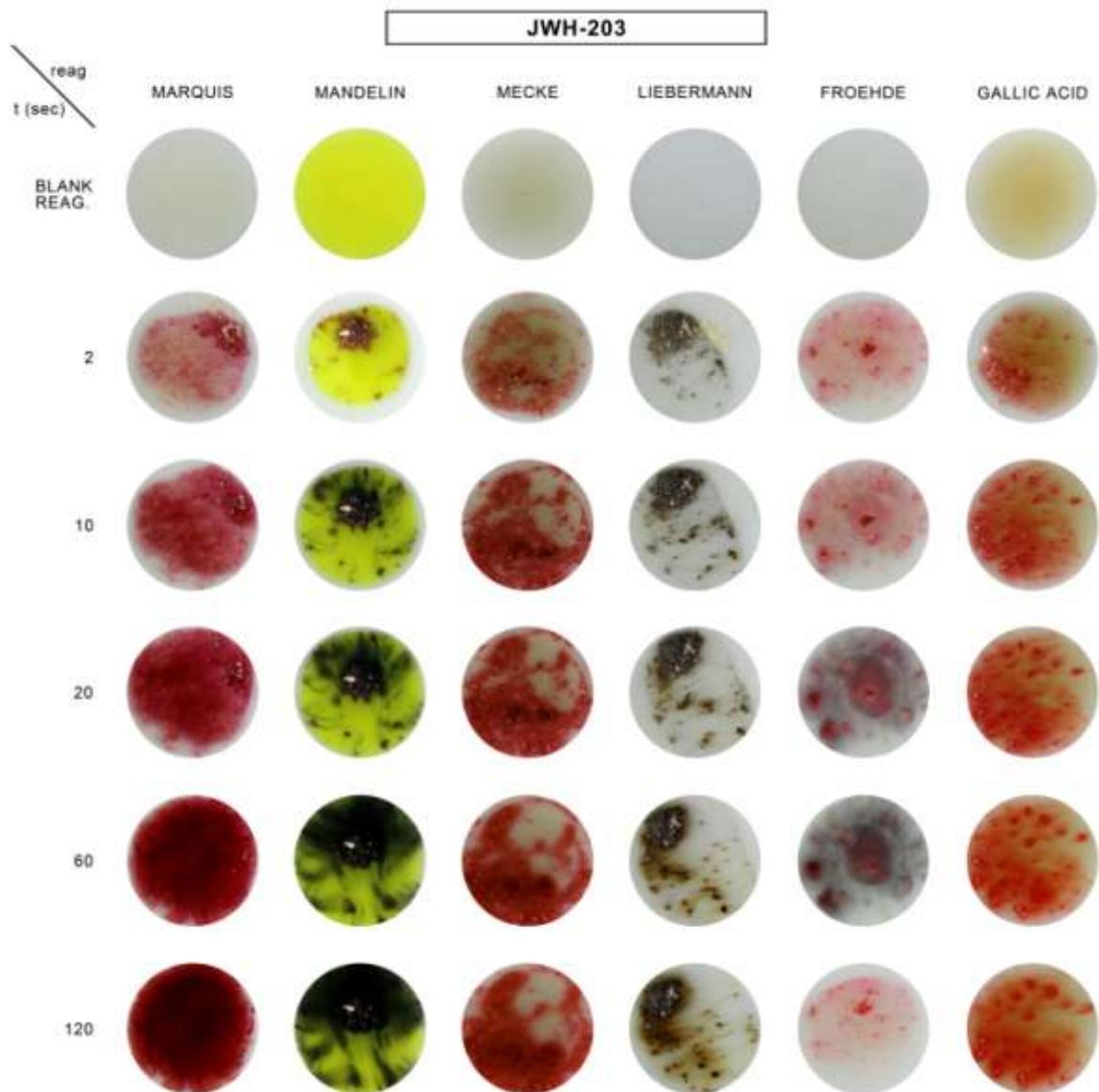
4.52. APP-CHMINACA_(PX3)



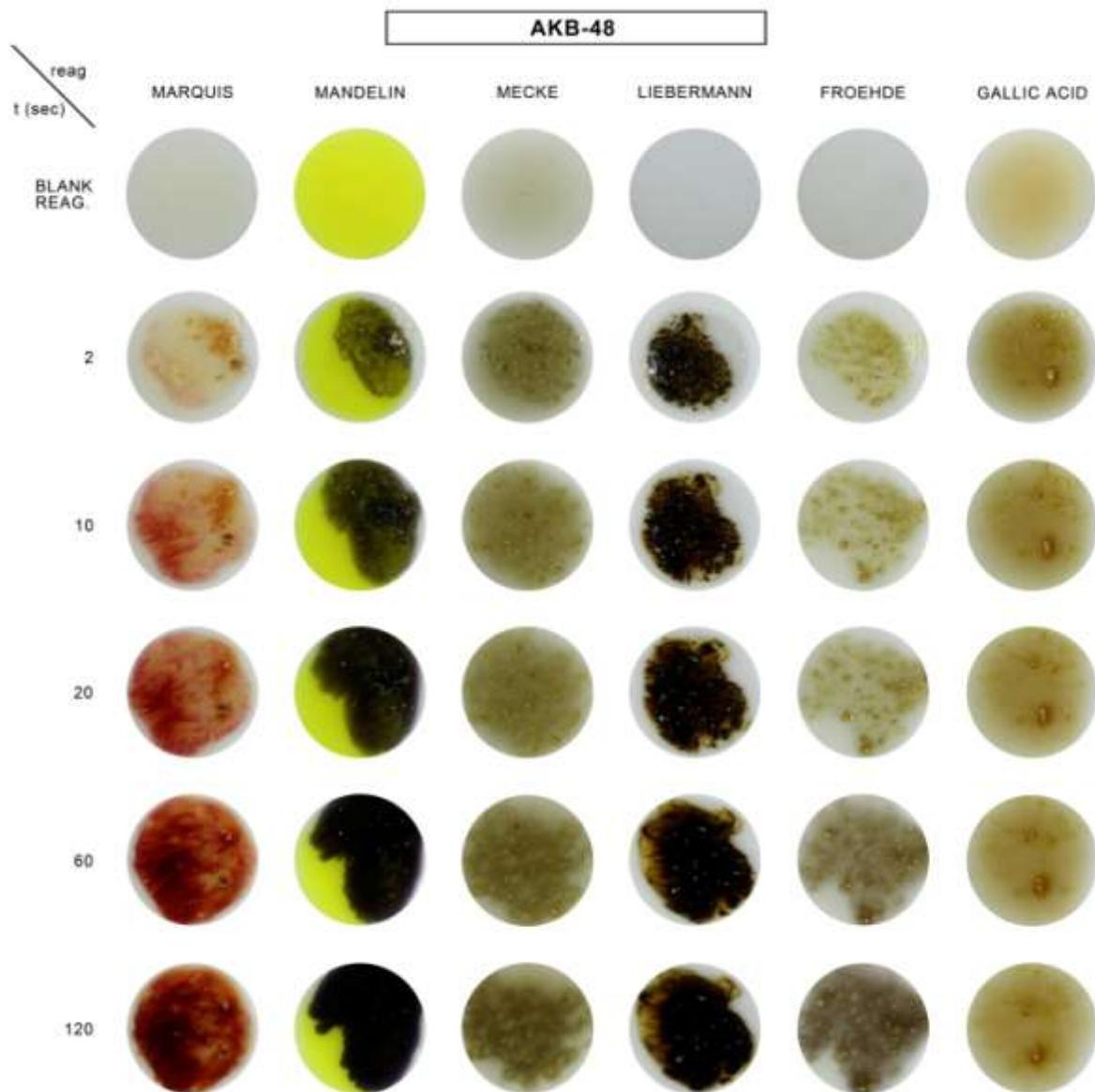
4.53. JWH-250



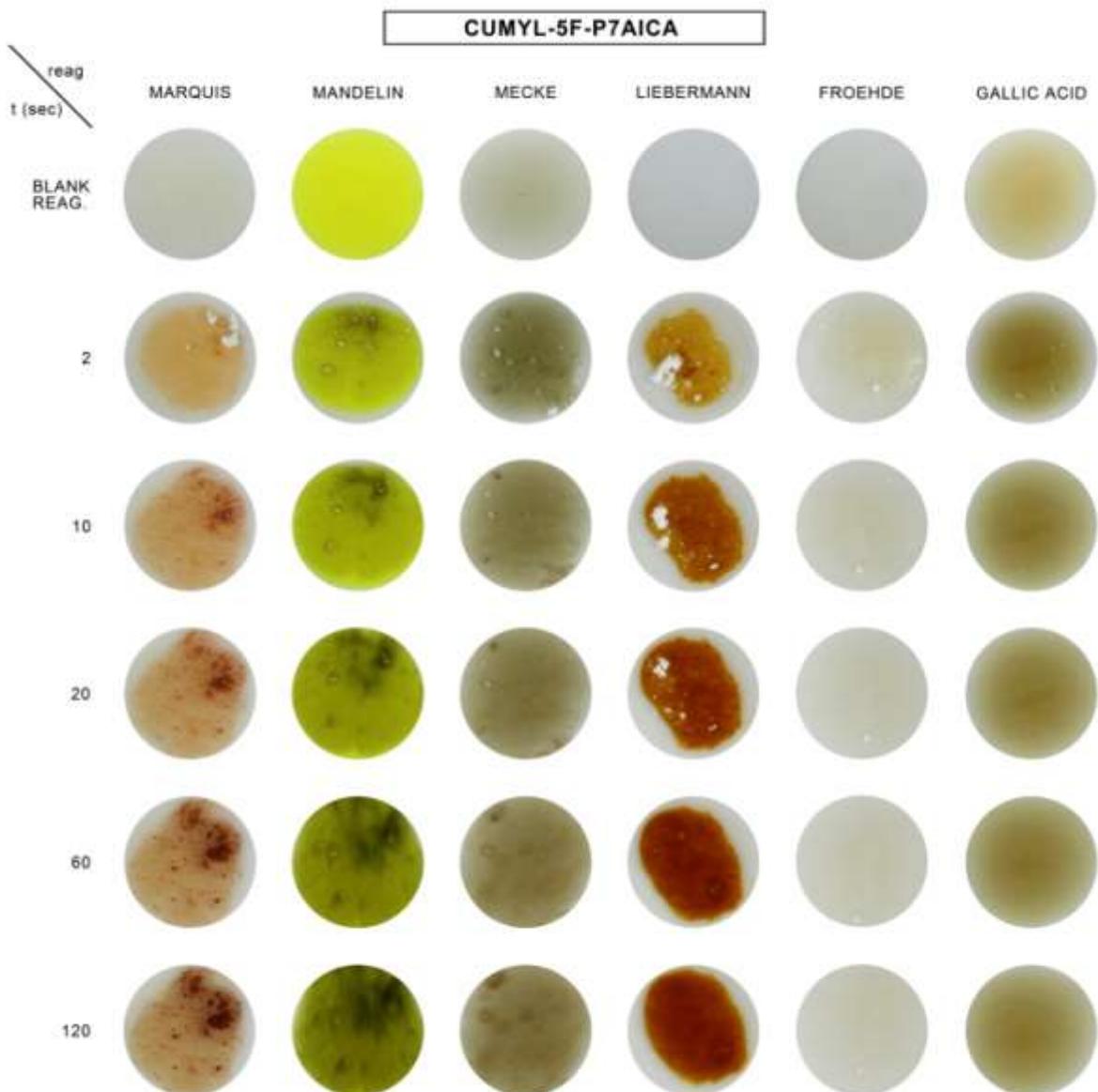
4.54. JWH-203



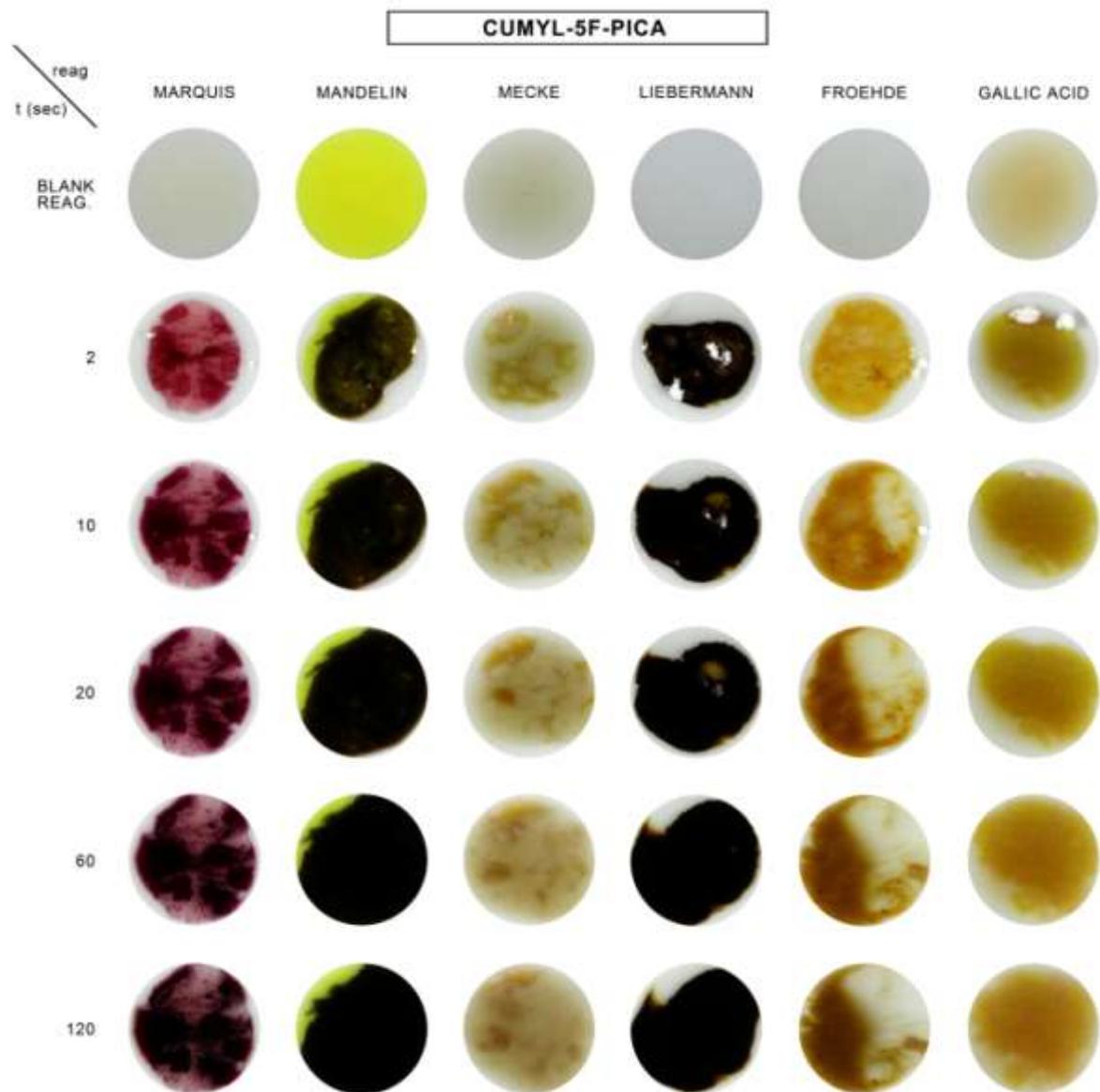
4.55. AKB-48



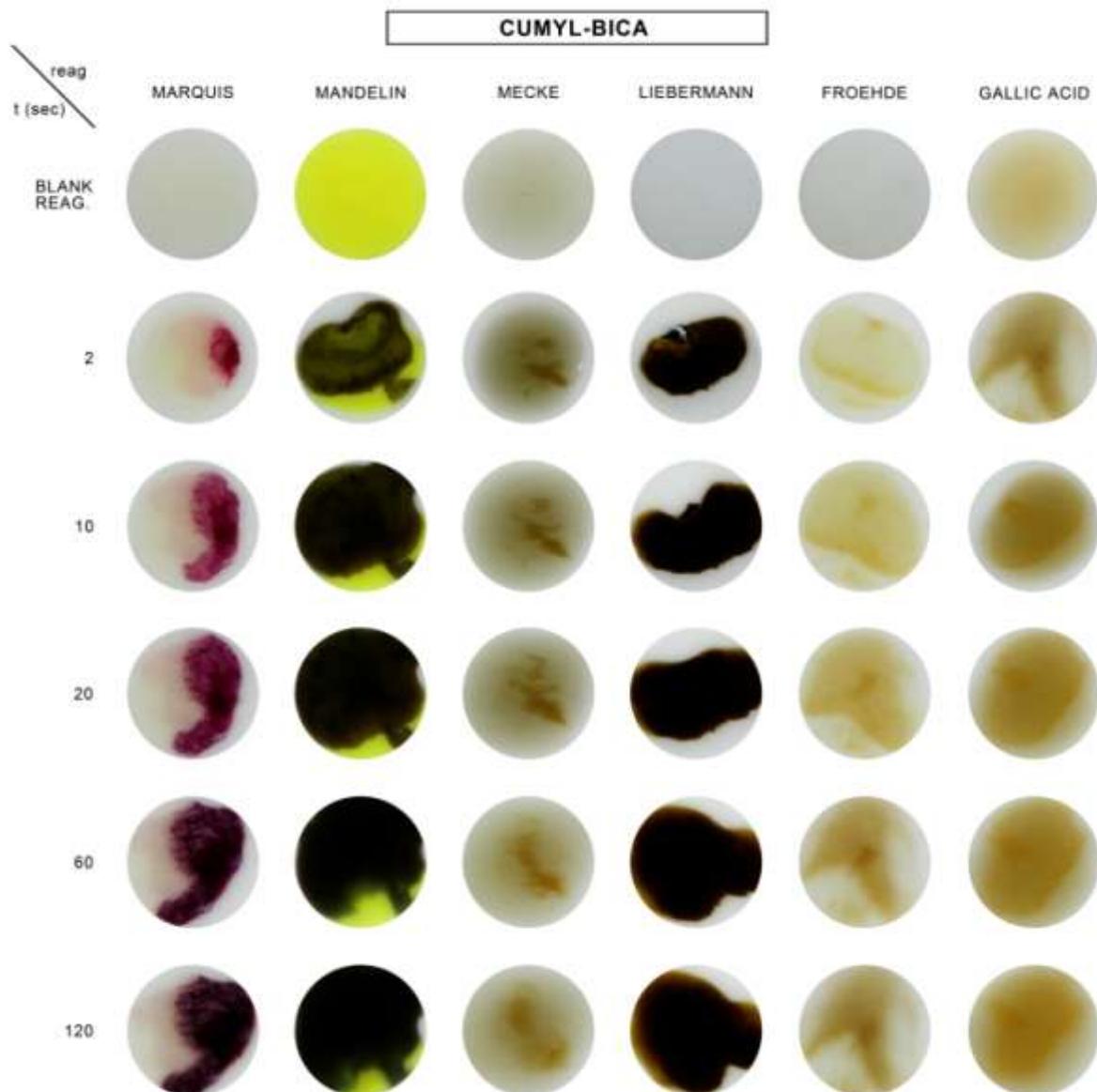
4.56. CUMYL-5F-P7AICA



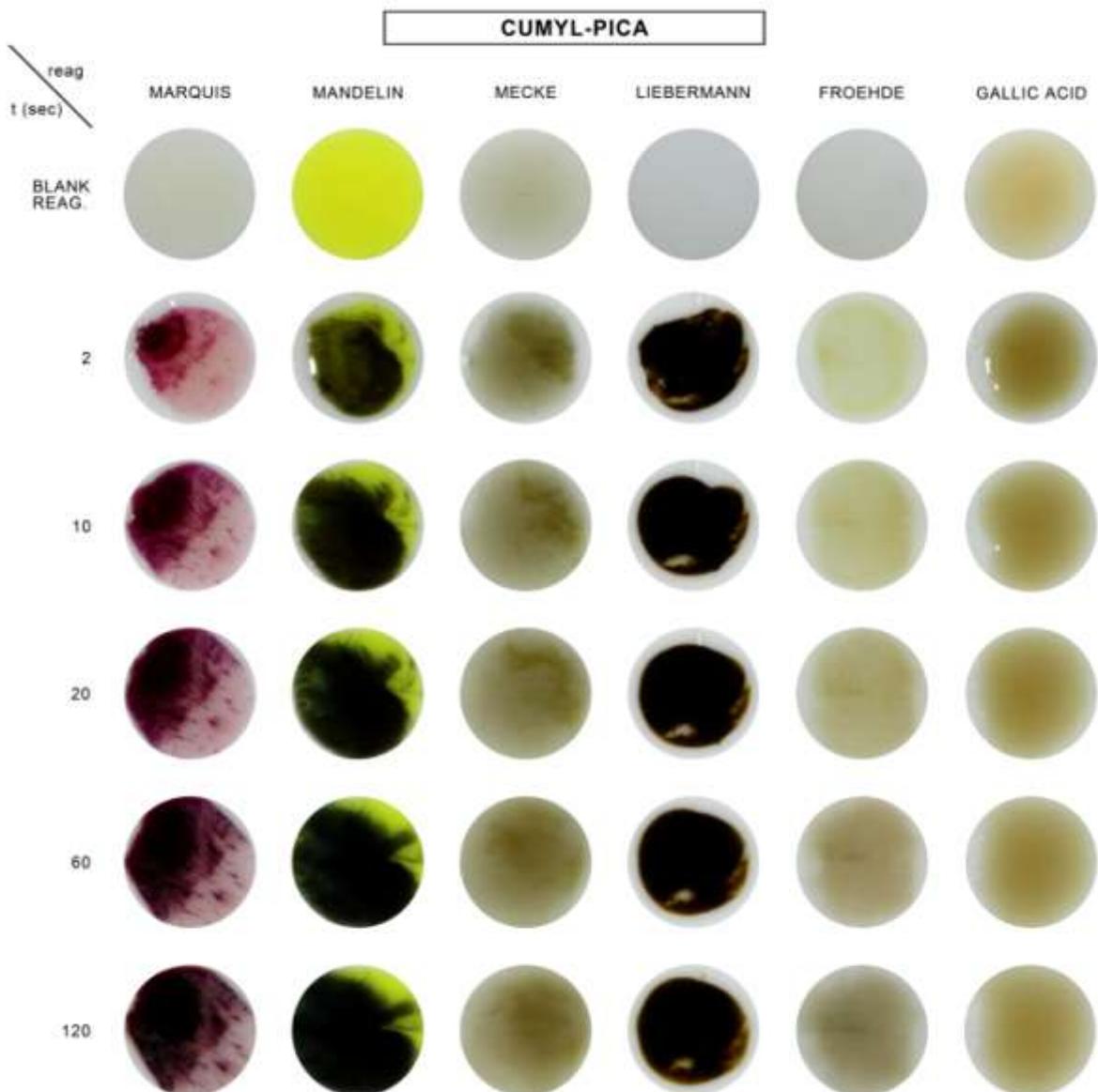
4.57. CUMYL-5F-PICA



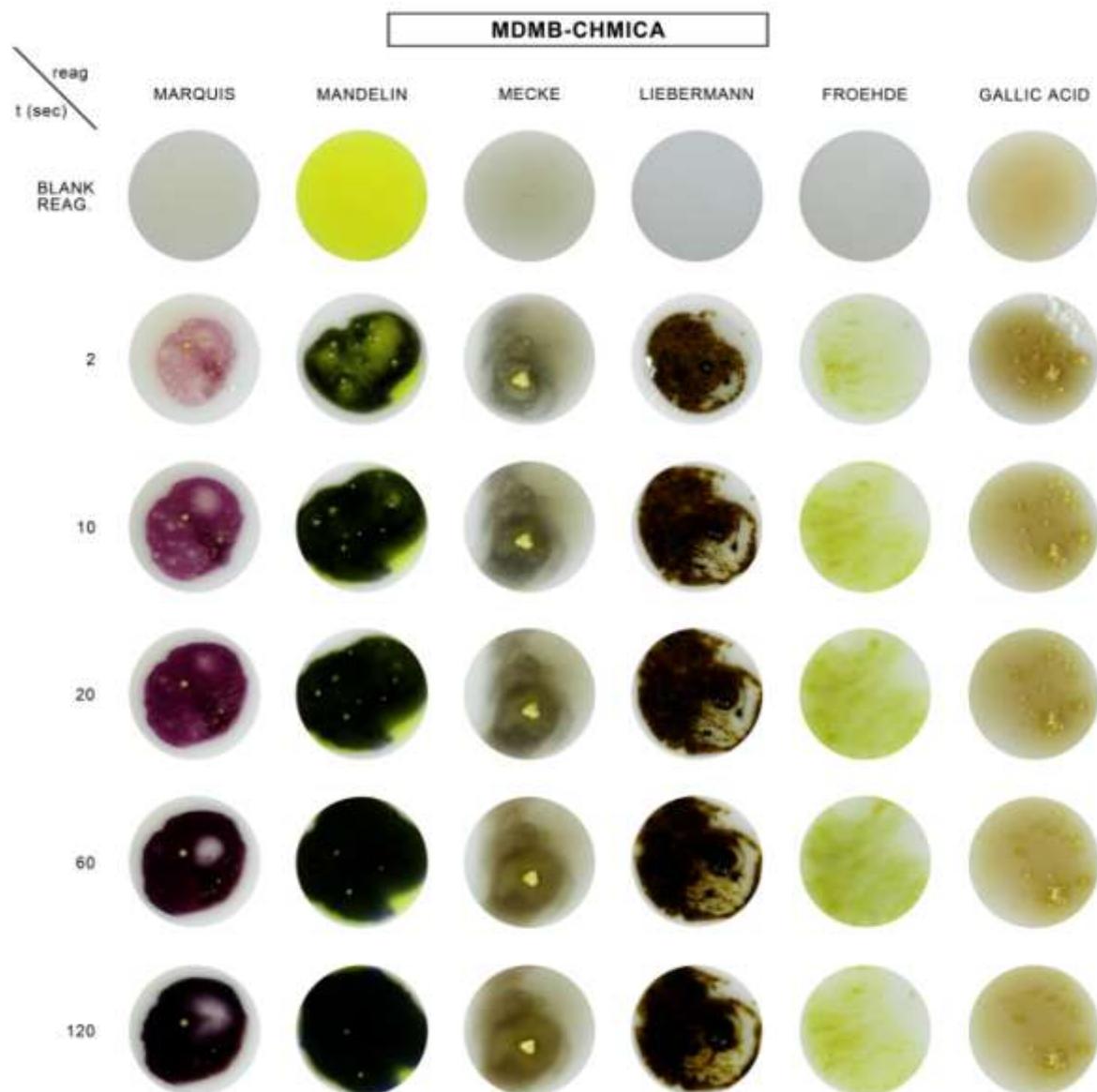
4.58. CUMYL-BICA



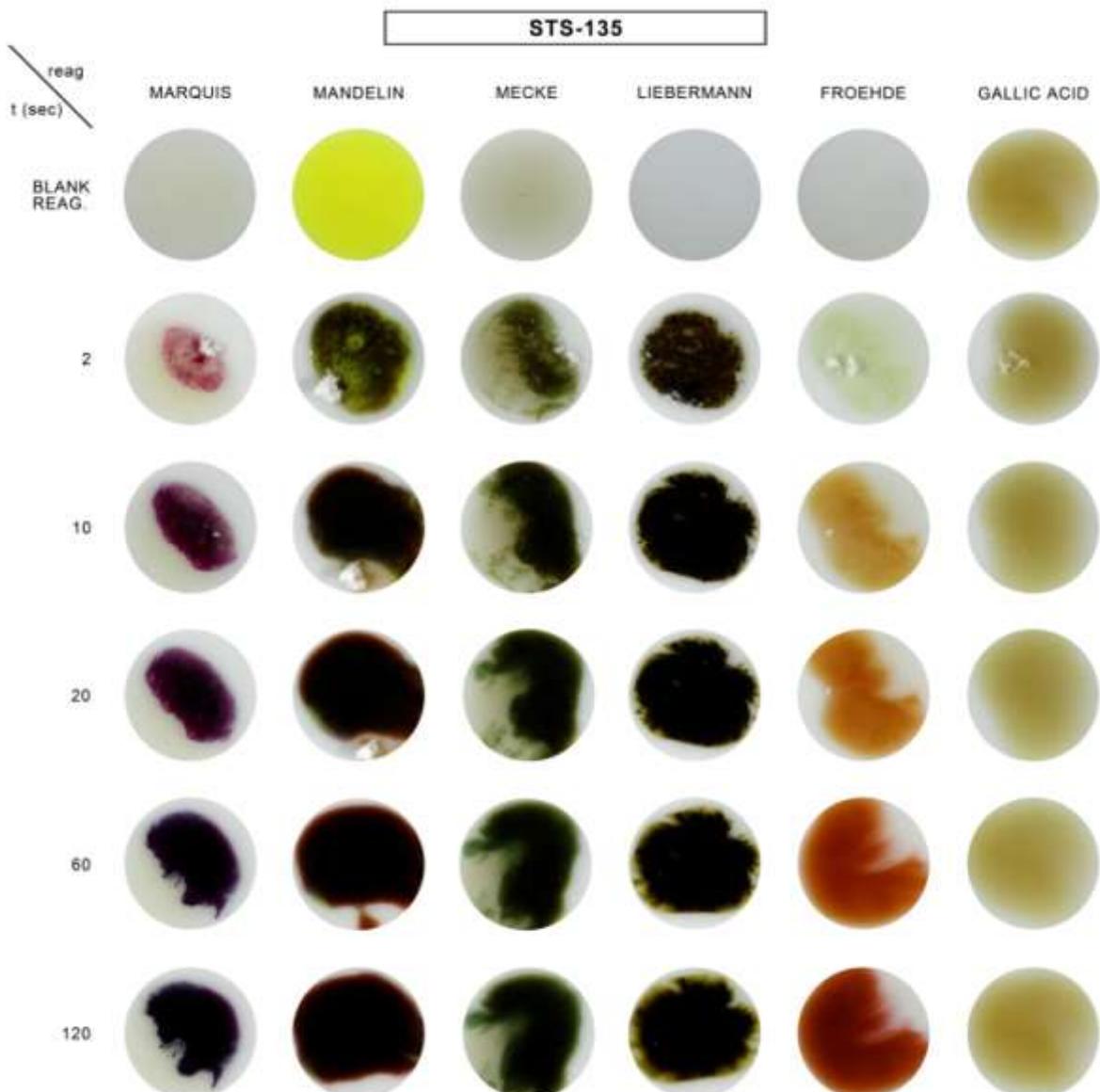
4.59. CUMYL-PICA



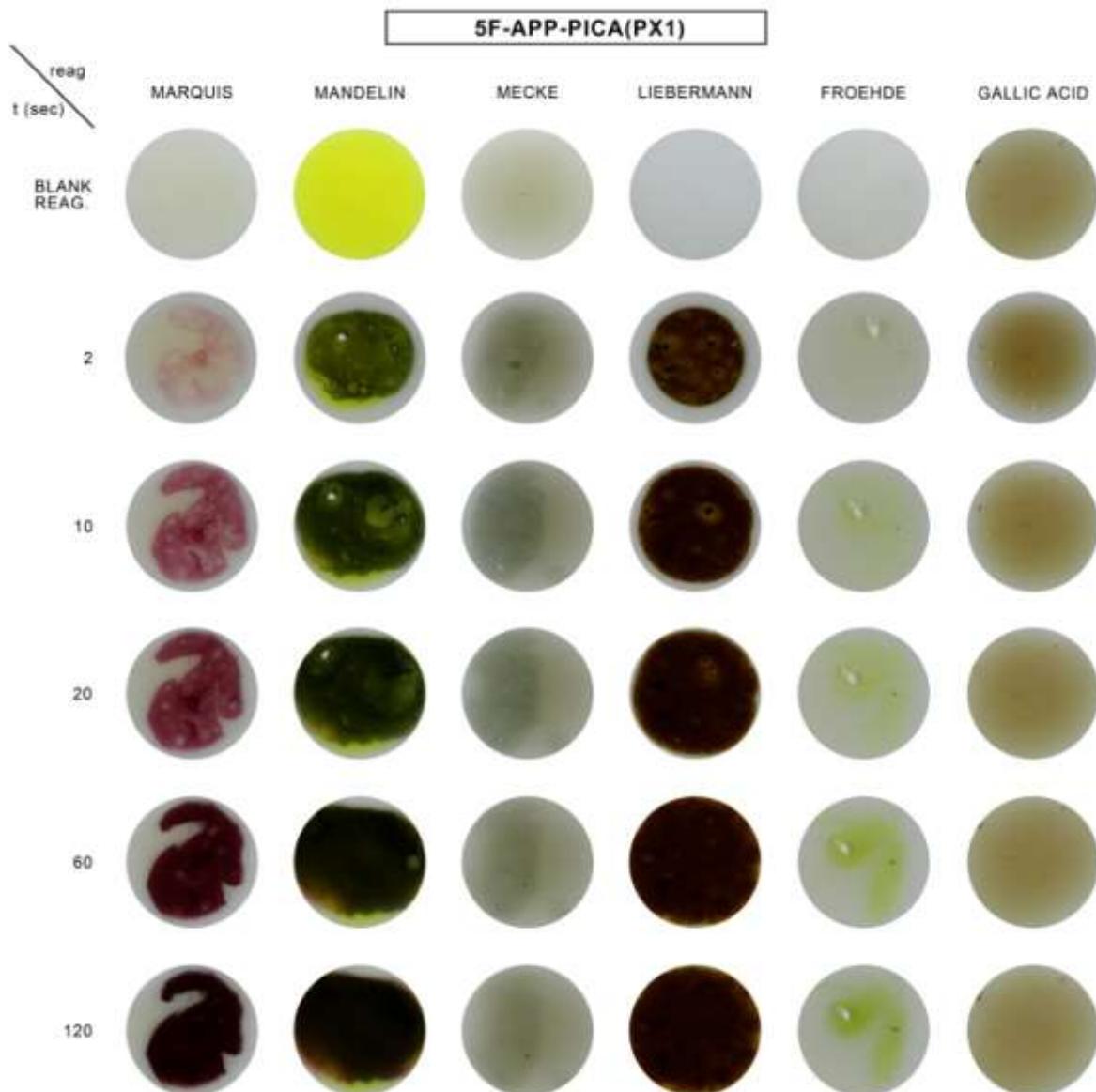
4.60. MDMB-CHMICA



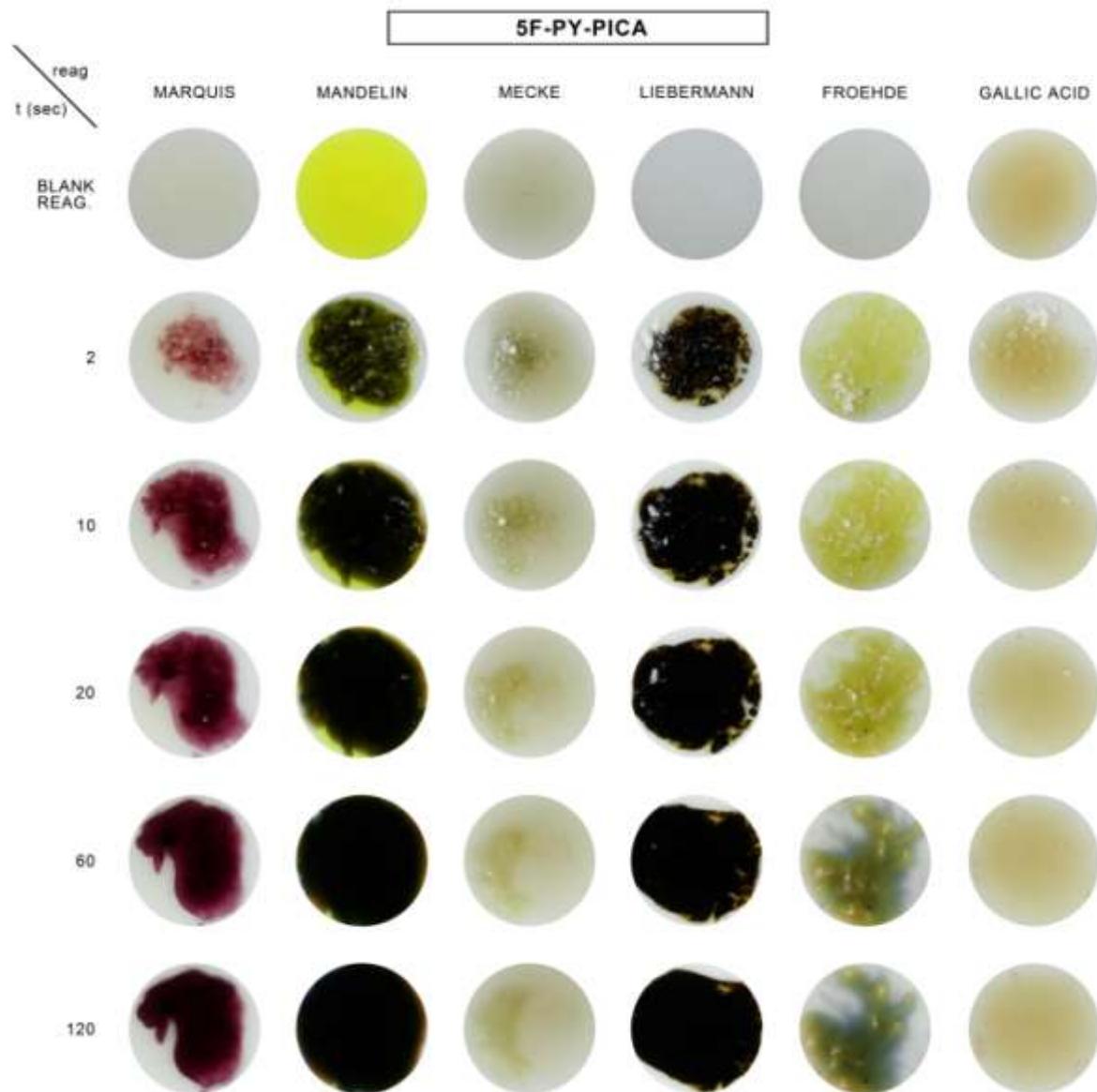
4.61. STS-135



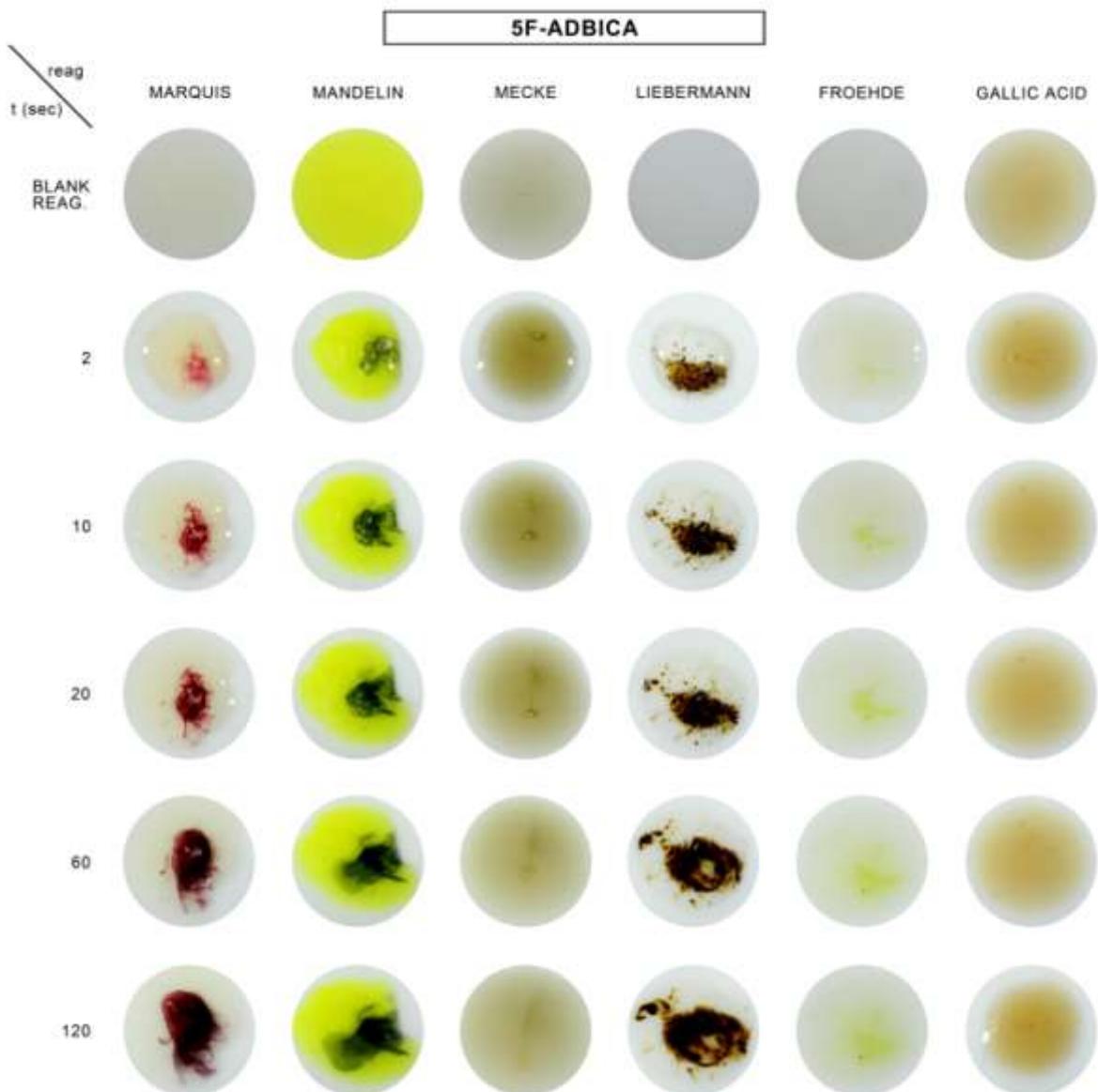
4.62. 5F-APP-PICA(PX1)



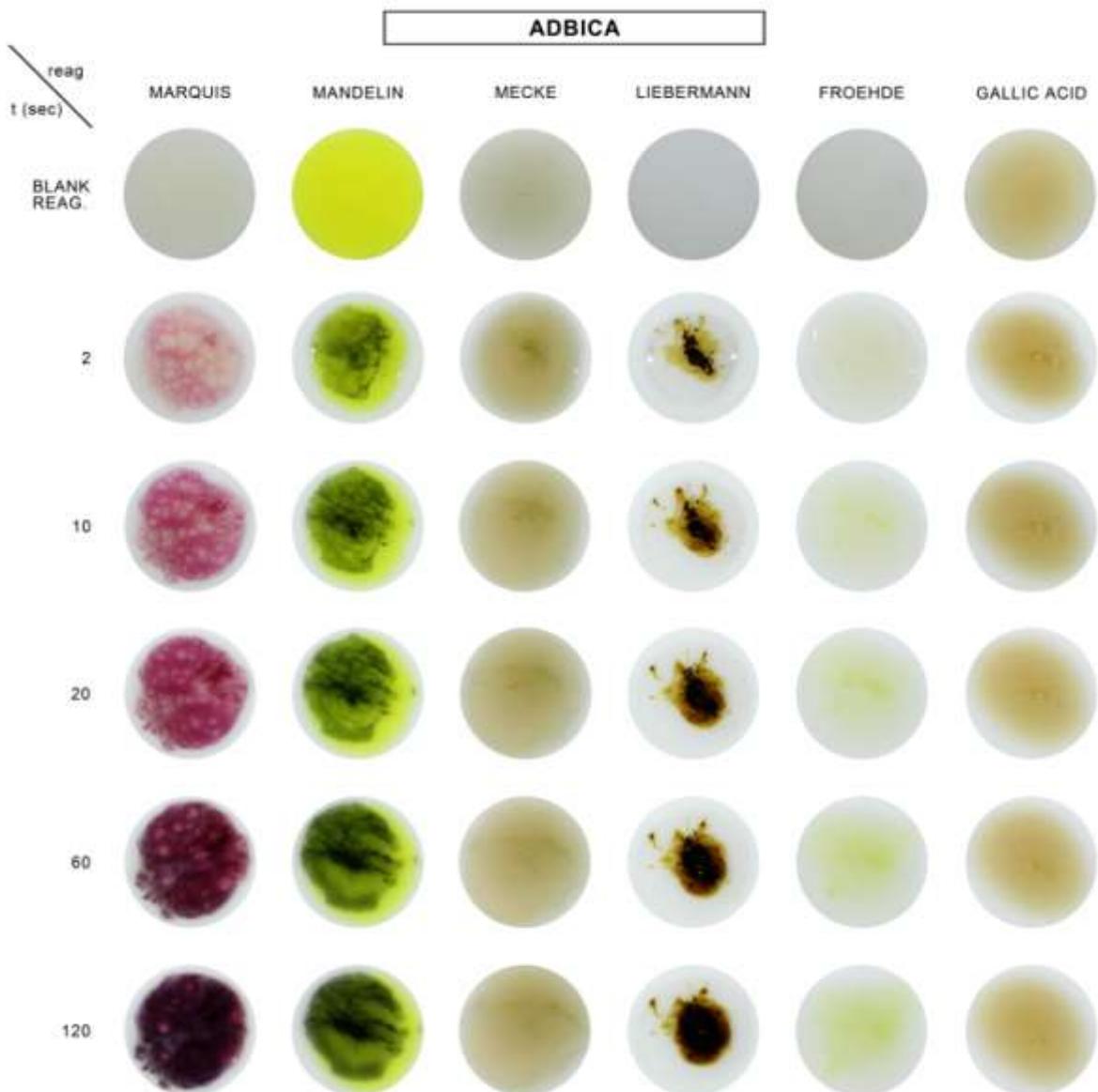
4.63. 5F-PY-PICA



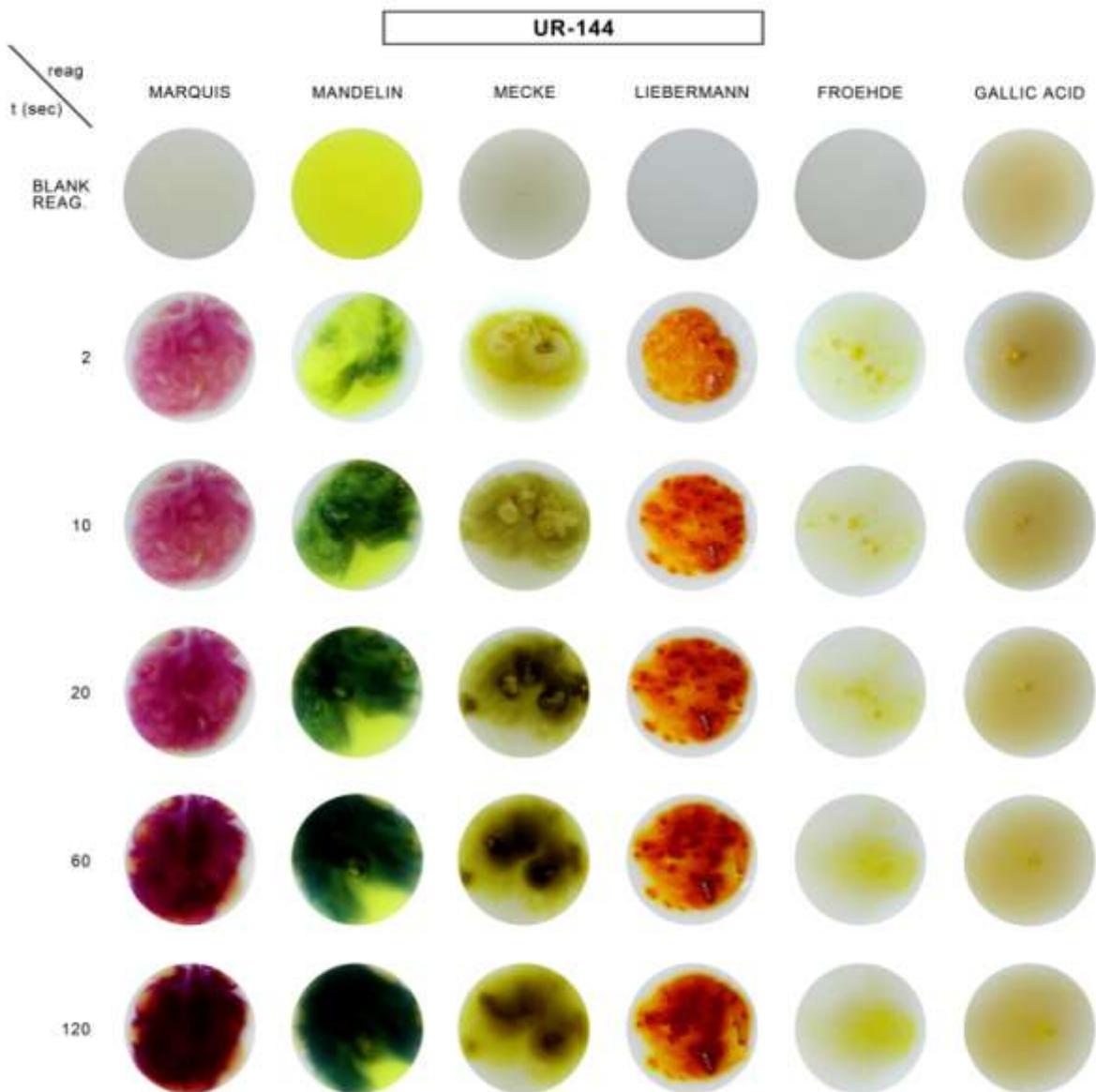
4.64. 5F-ADBICA



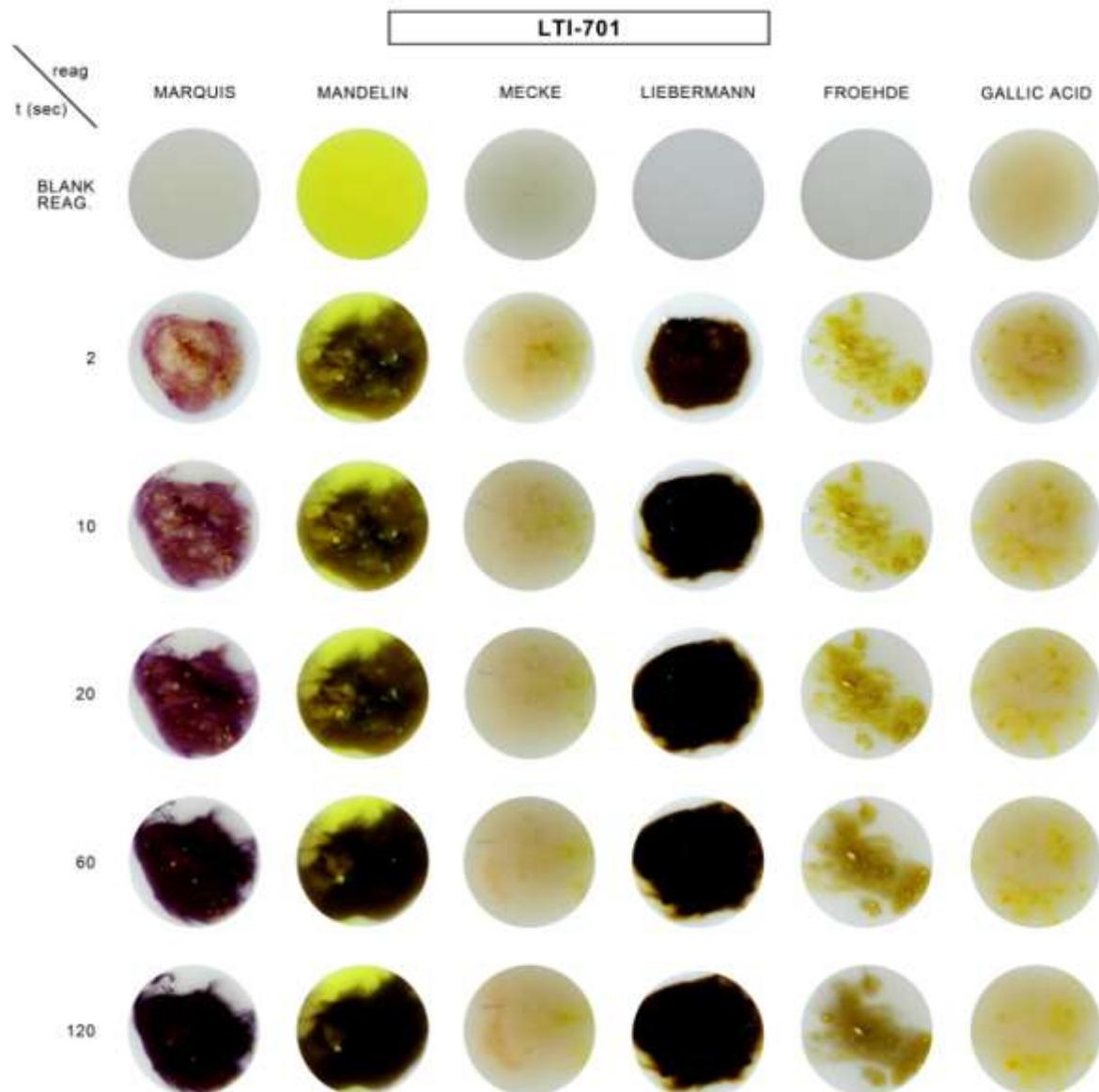
4.65. ADBICA



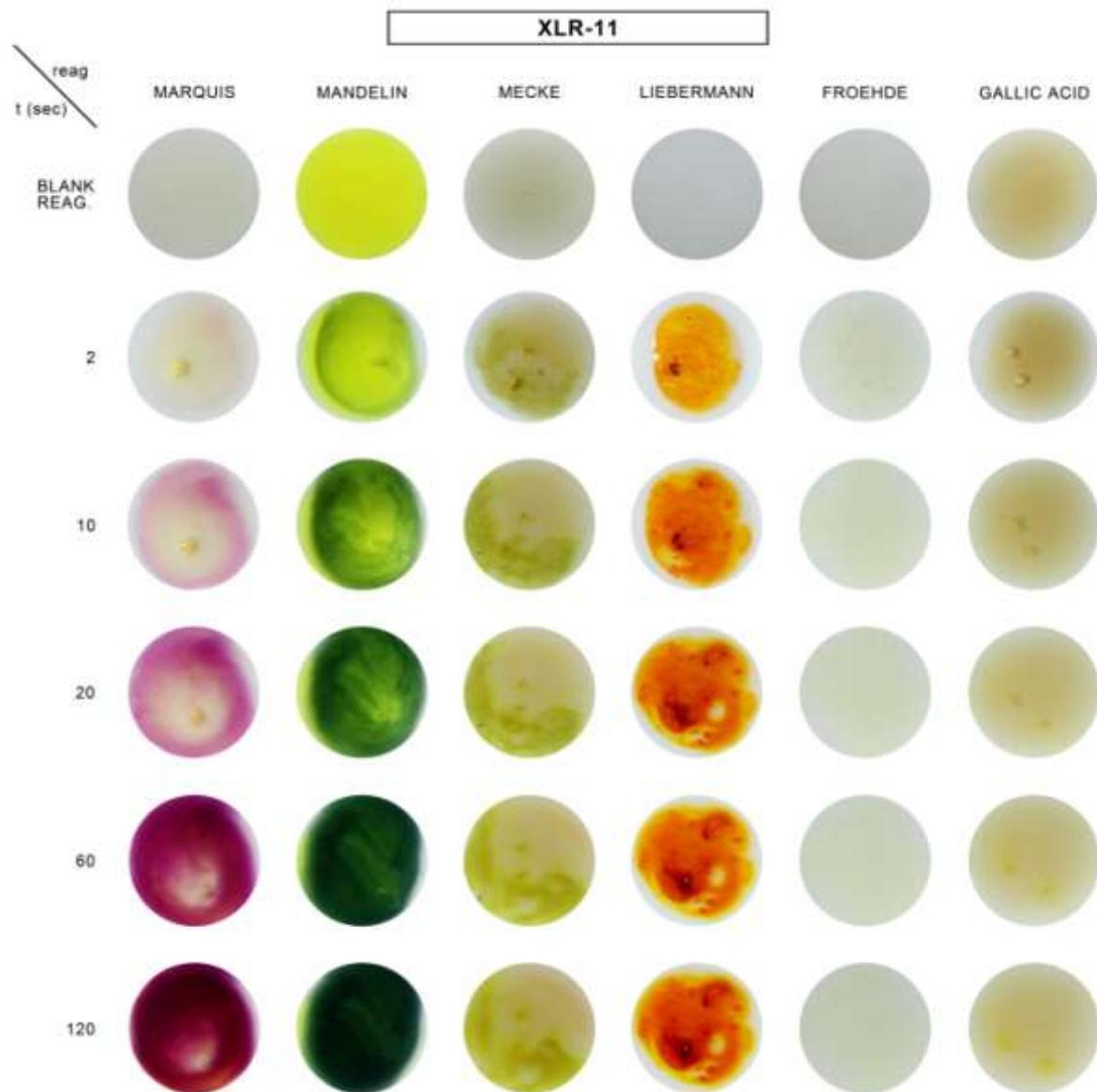
4.66. UR-144



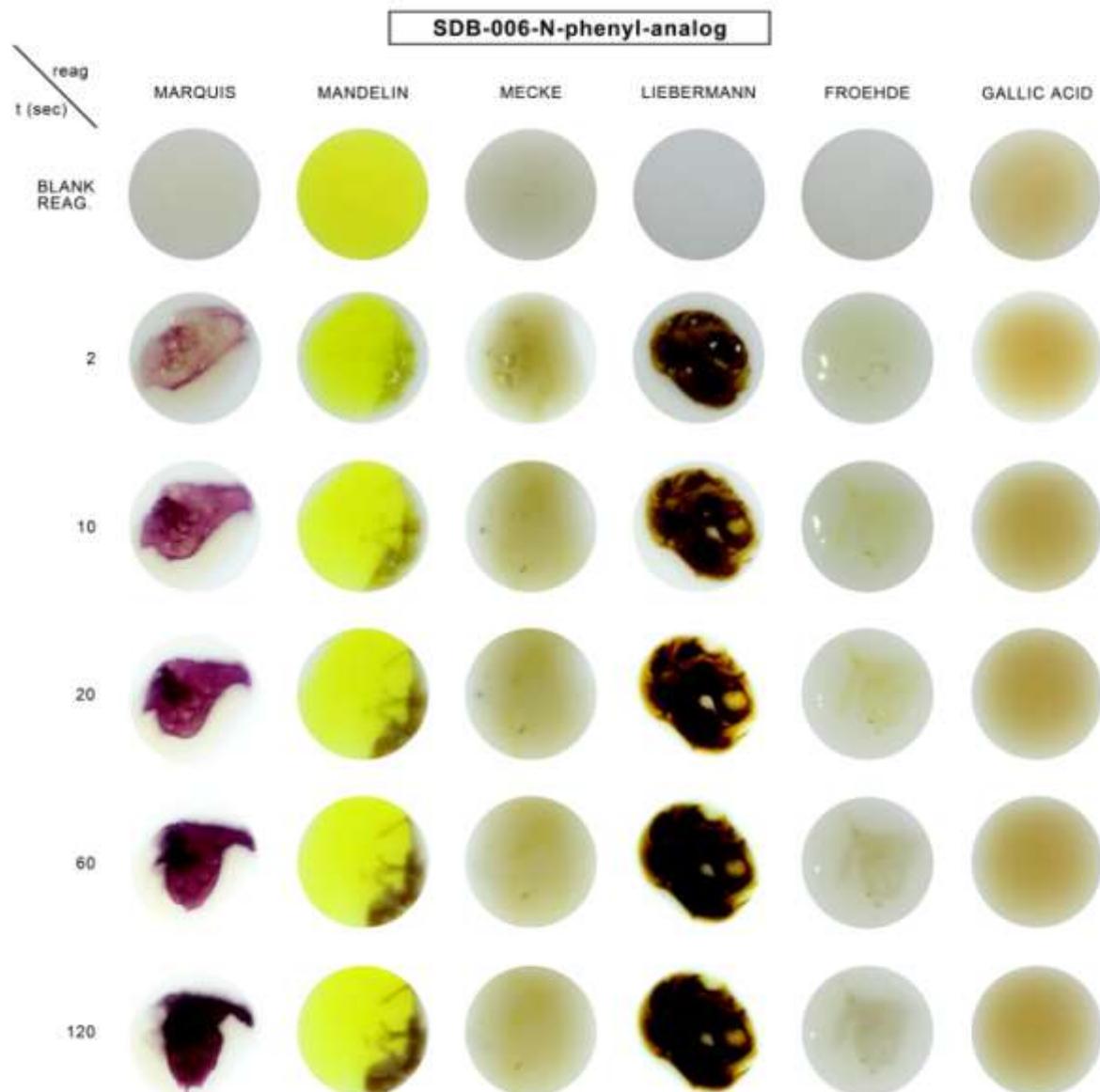
4.67. LTI-701



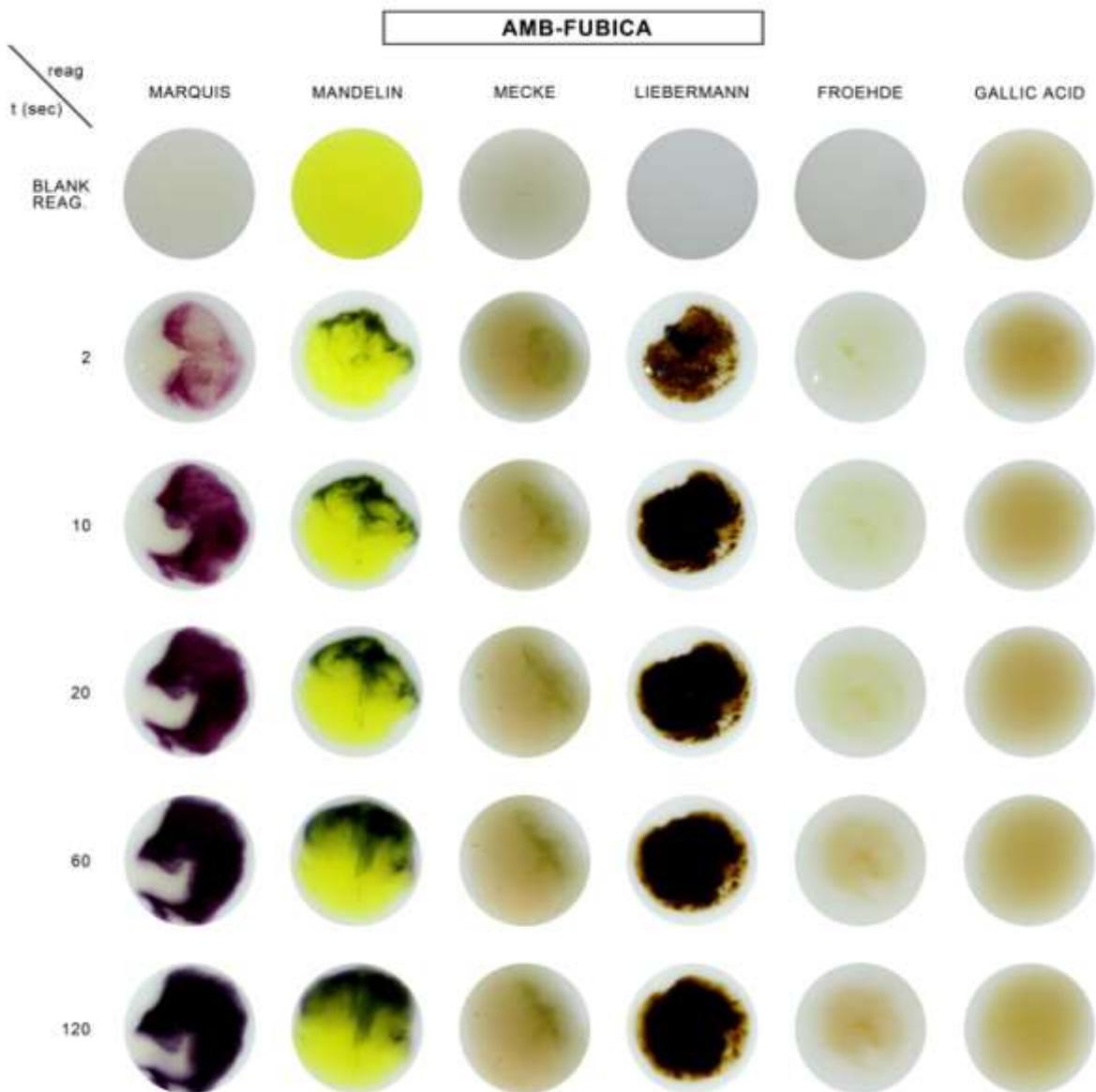
4.68. XLR-11



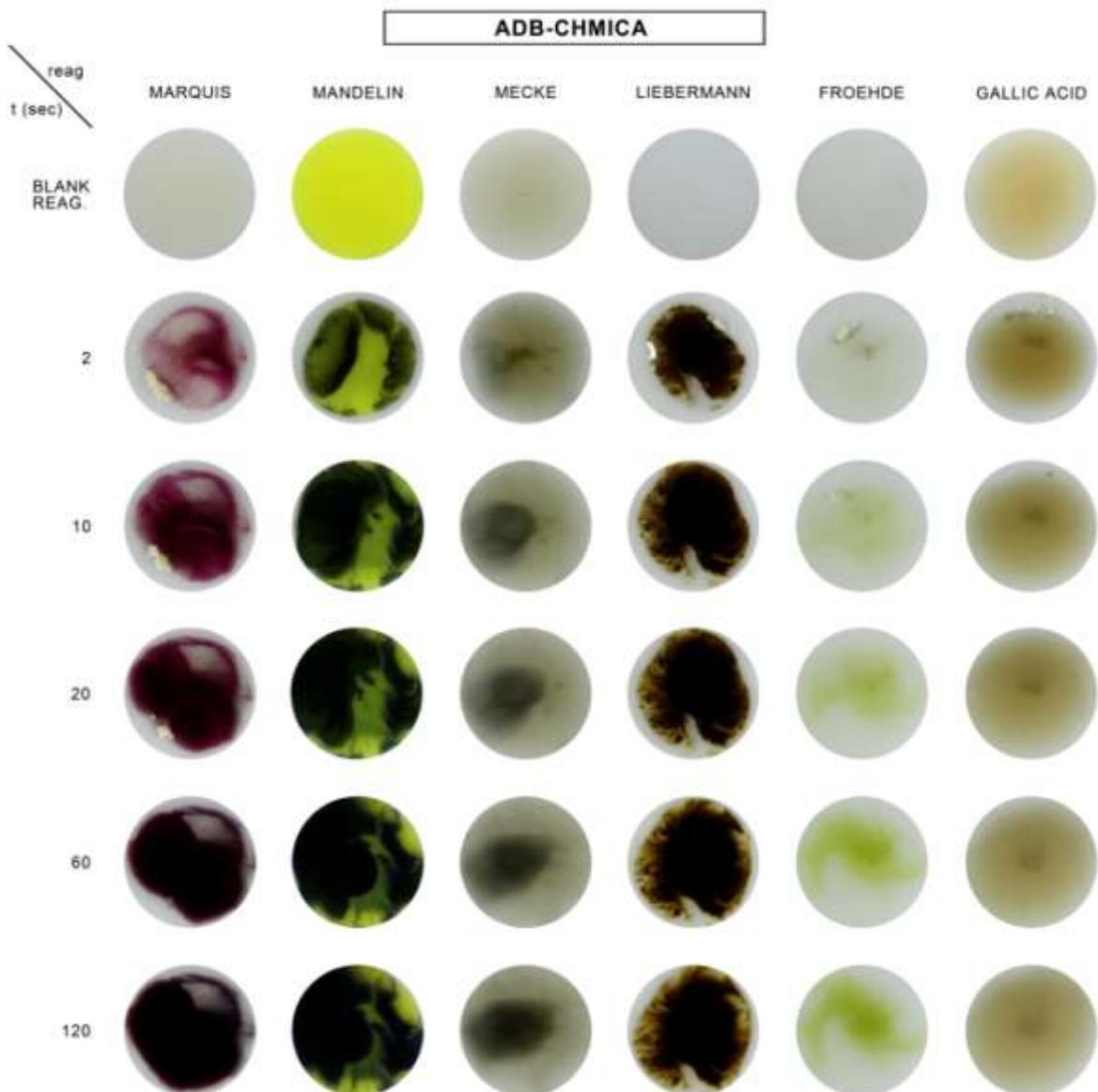
4.69. SDB-006-N-phenyl-analog



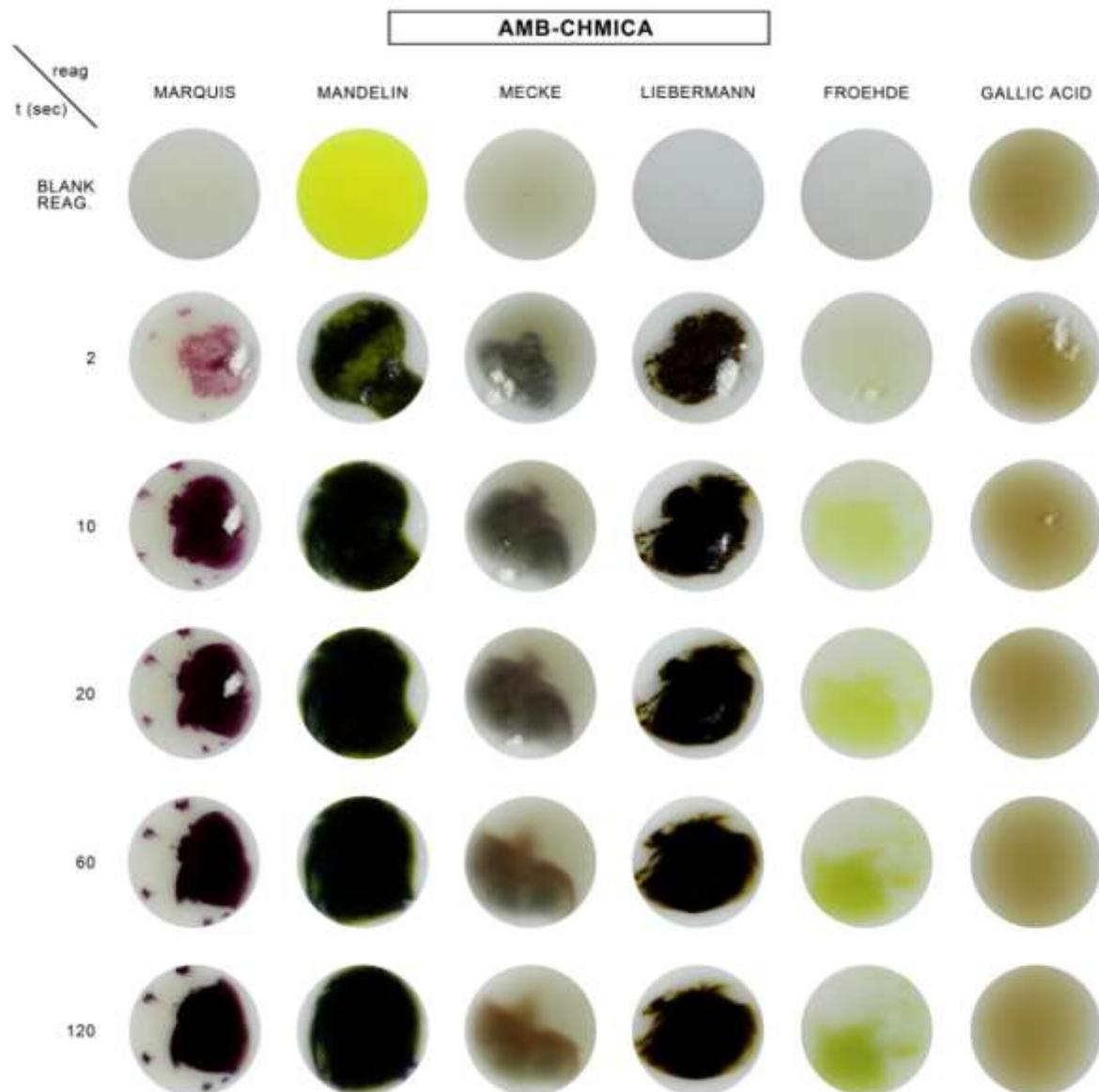
4.70. AMB-FUBICA



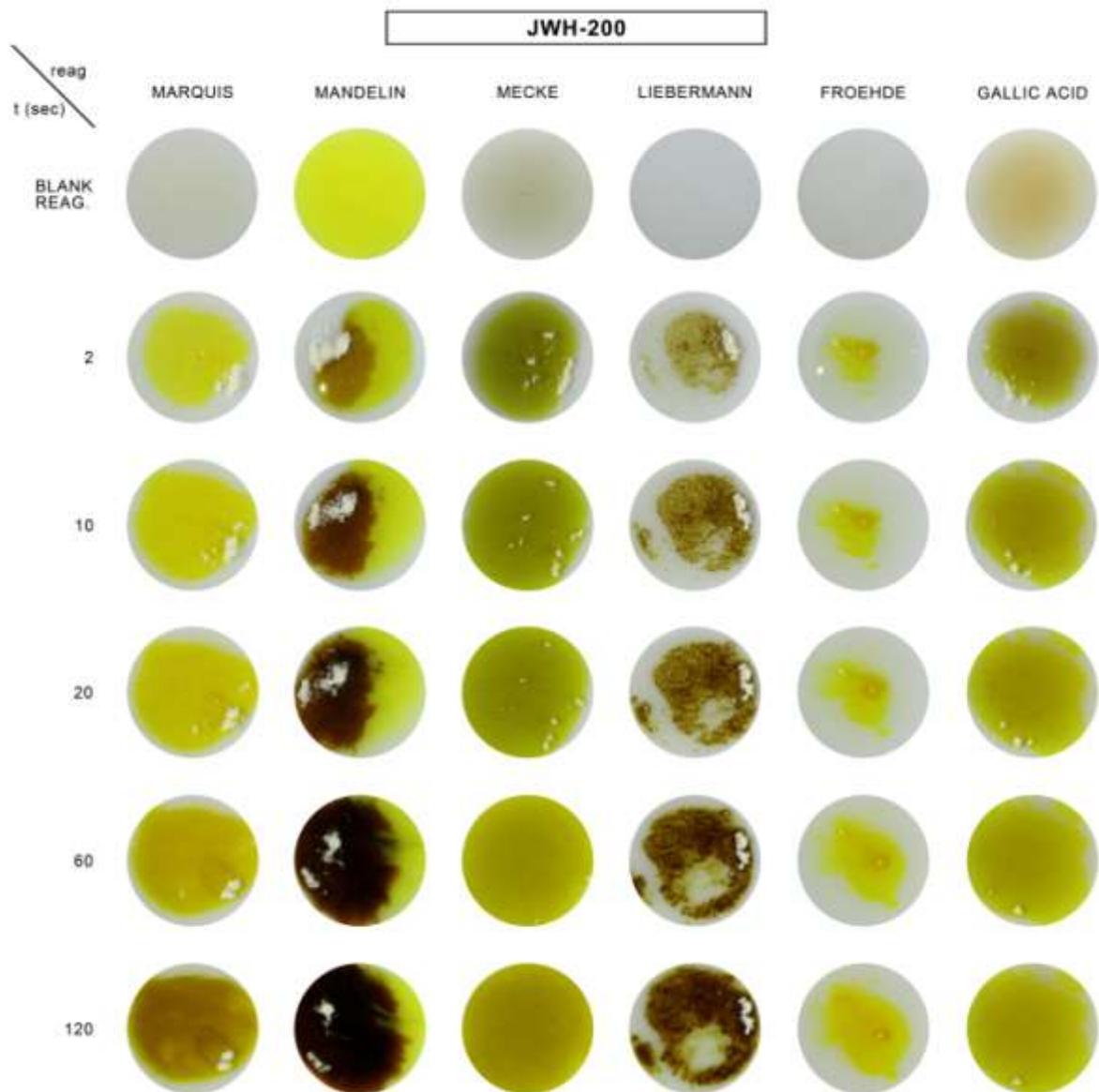
4.71. ADB-CHMICA



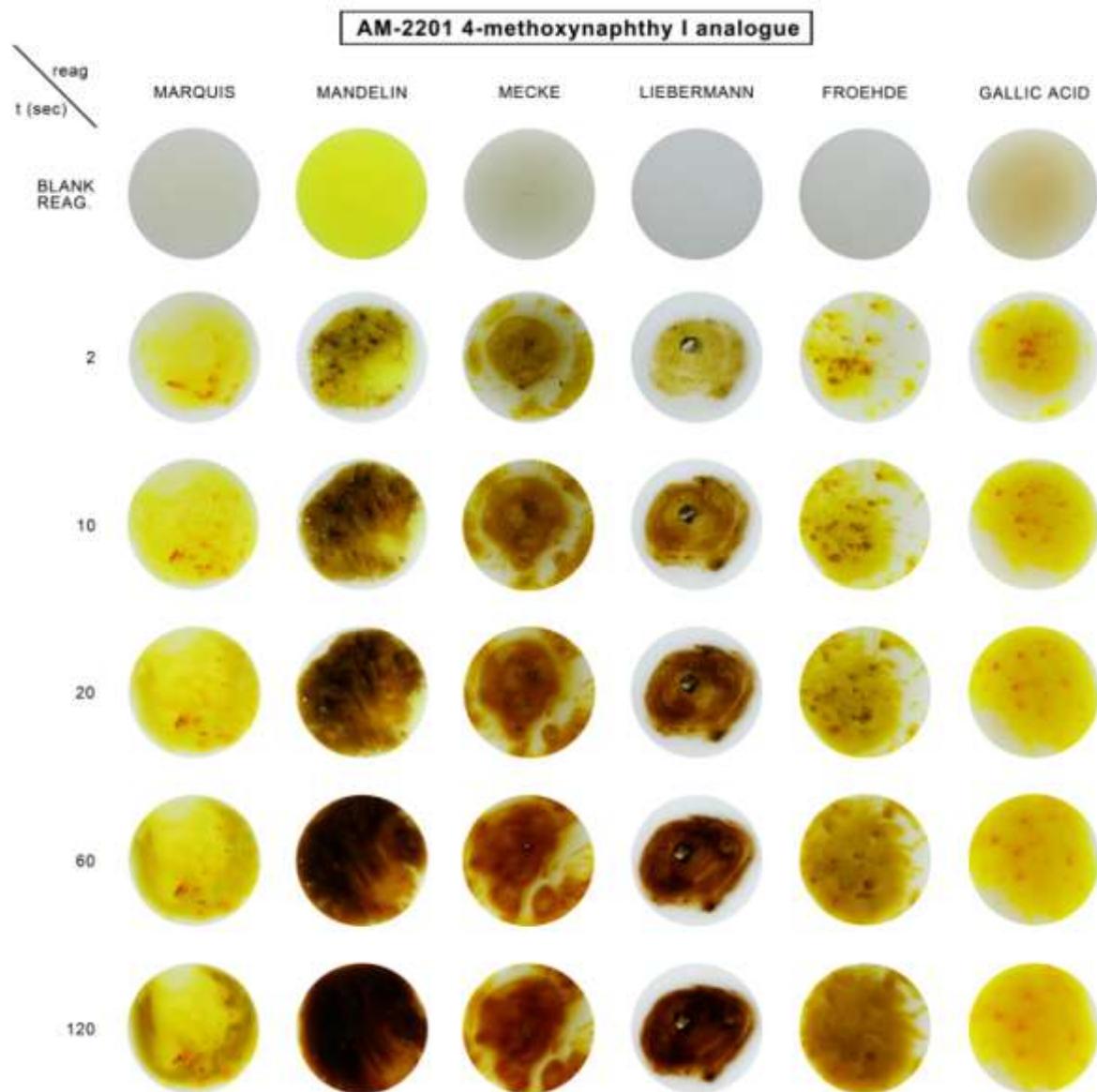
4.72. AMB-CHMICA



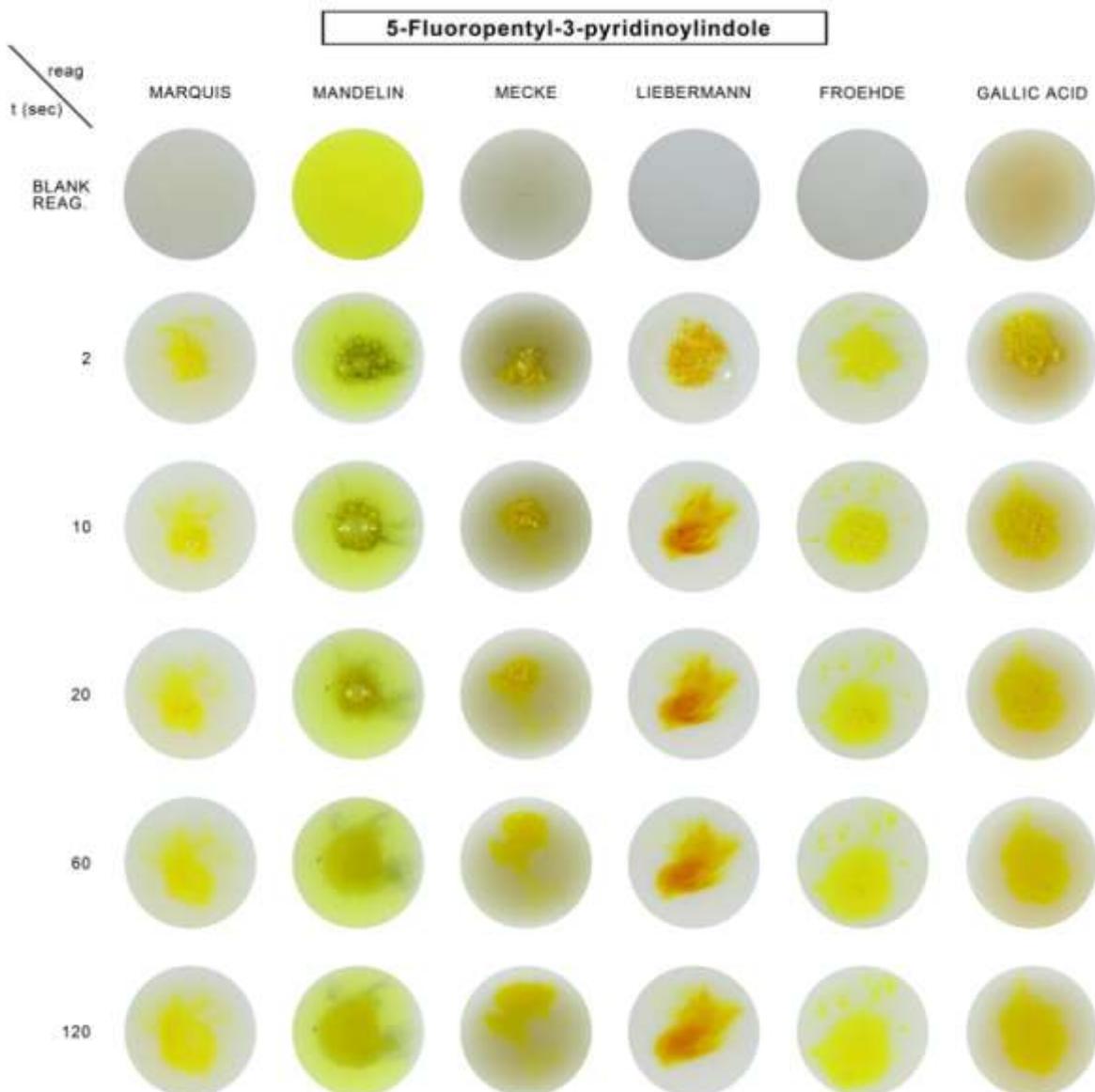
4.73. JWH-200



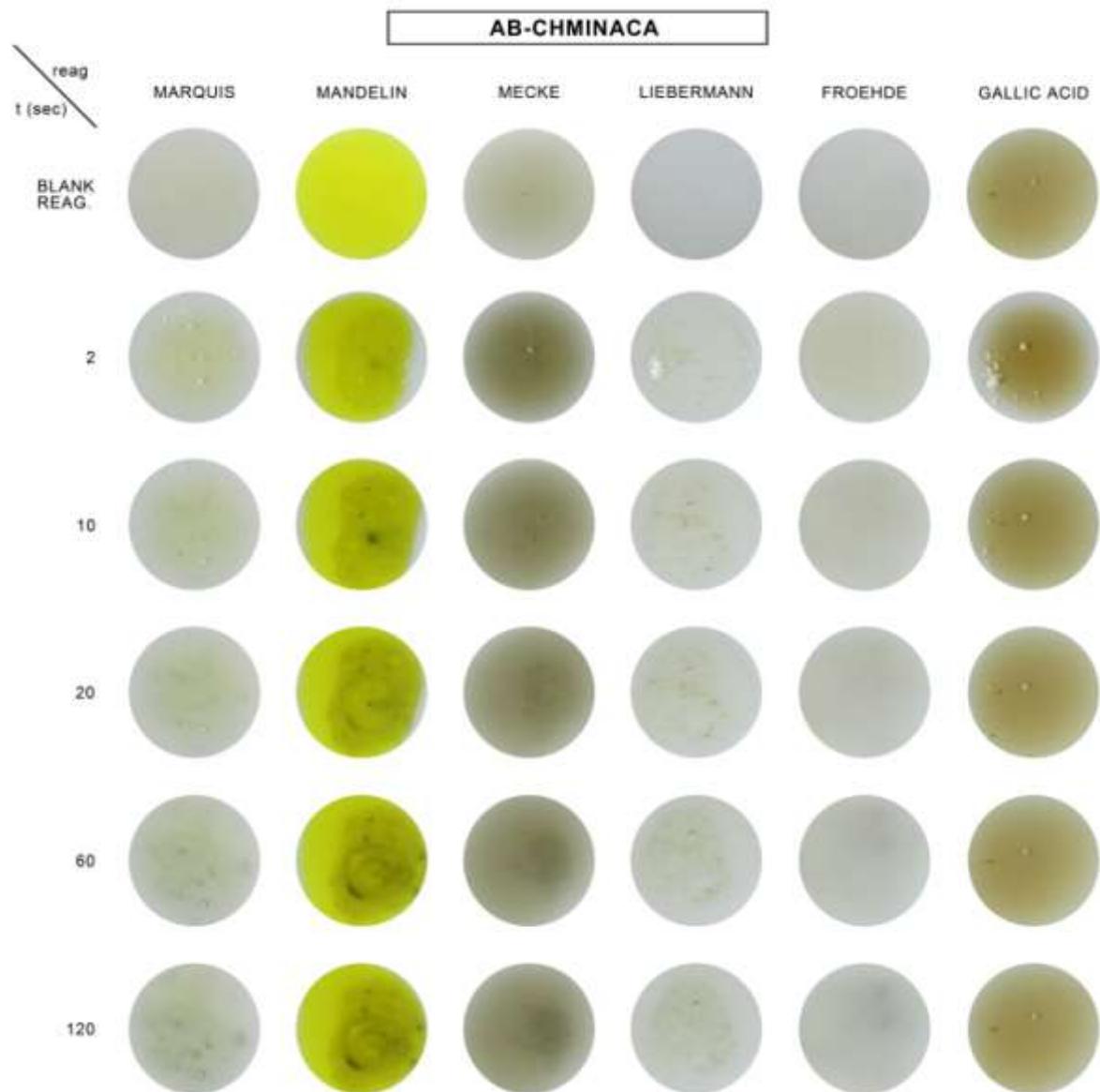
4.74. AM-2201 4-methoxynaphthyl analogue



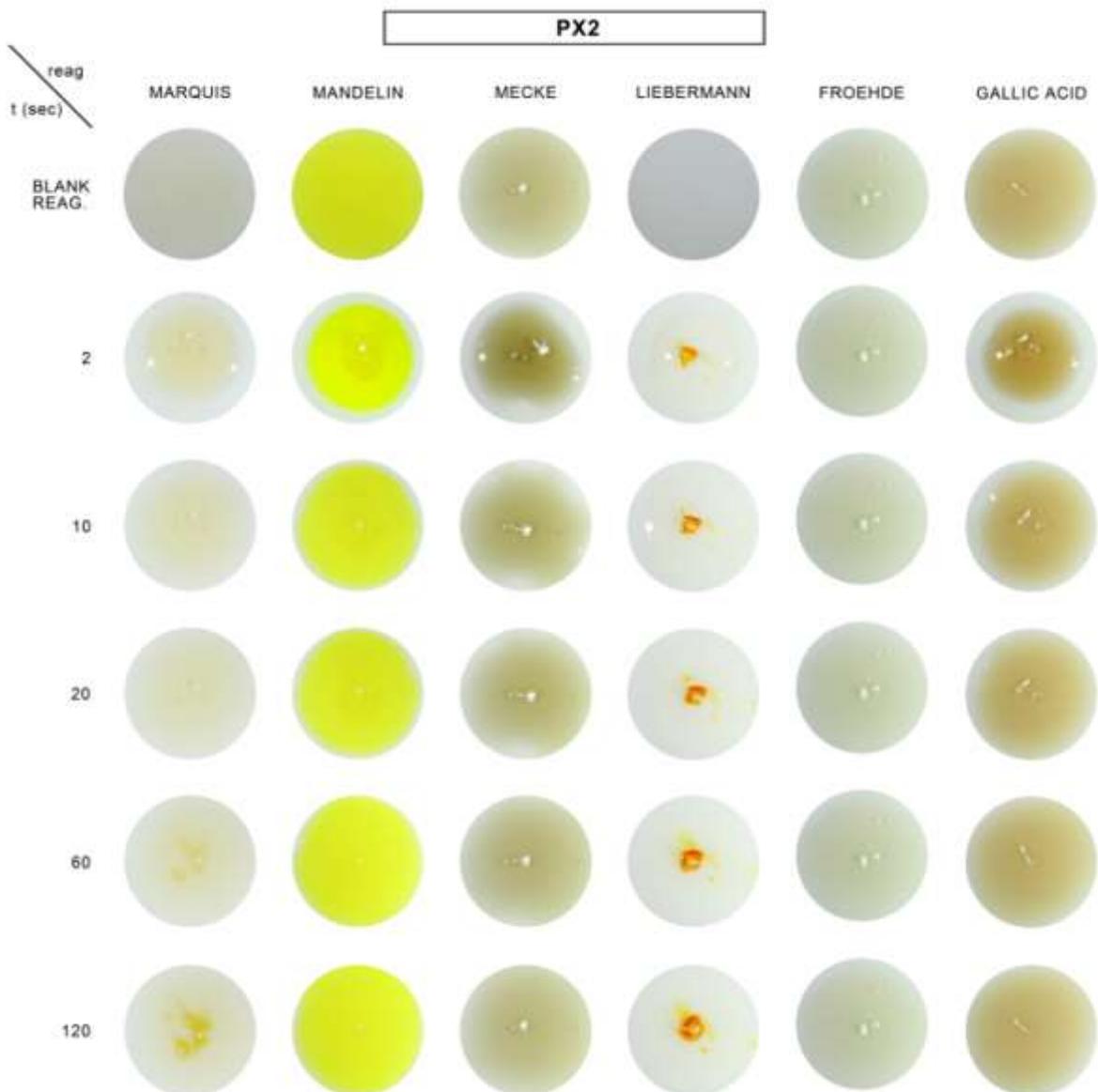
4.75. 5-Fluoropentyl-3-pyridinoylindole



4.76. AB-CHMINACA

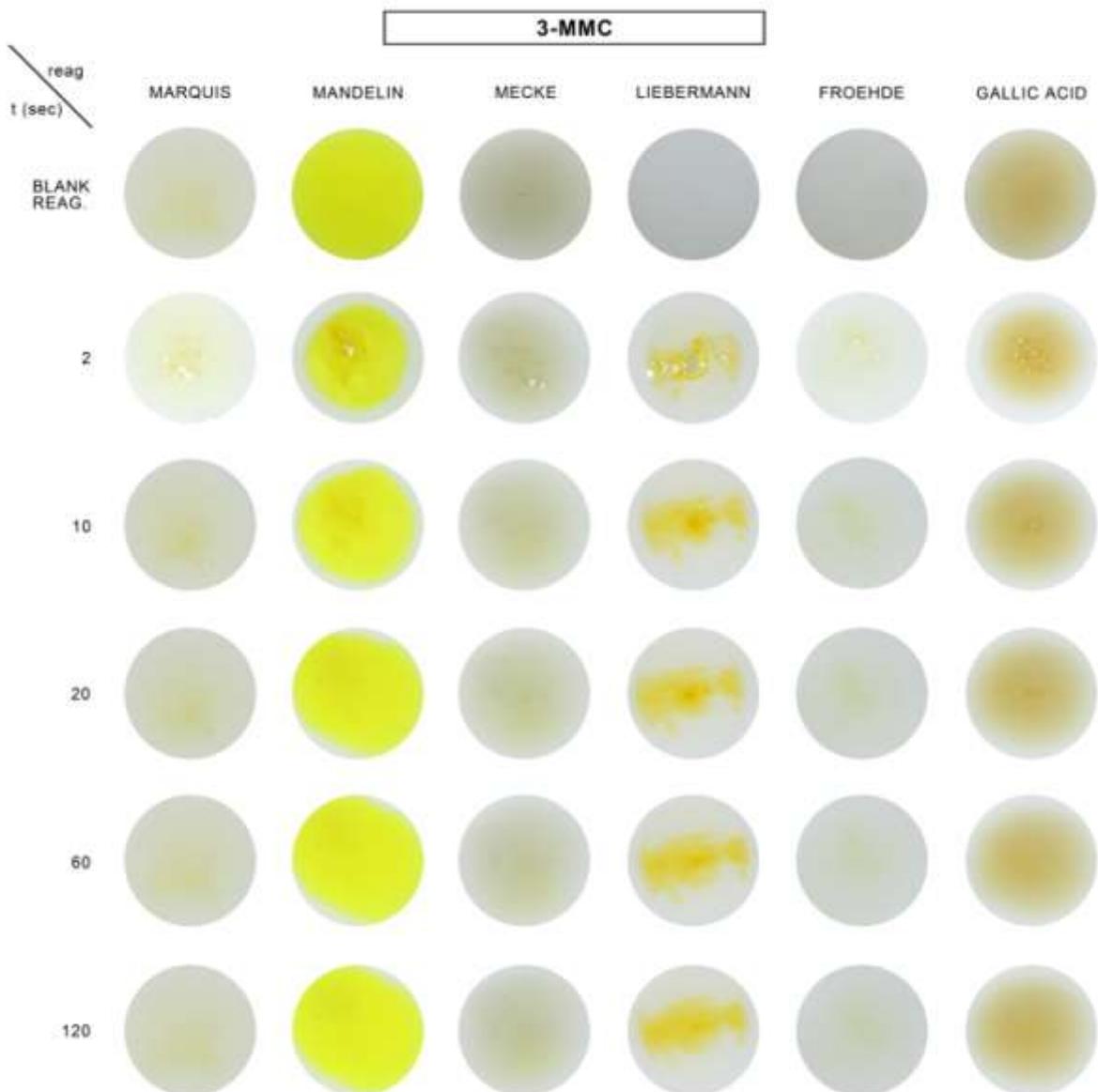


4.77. PX2

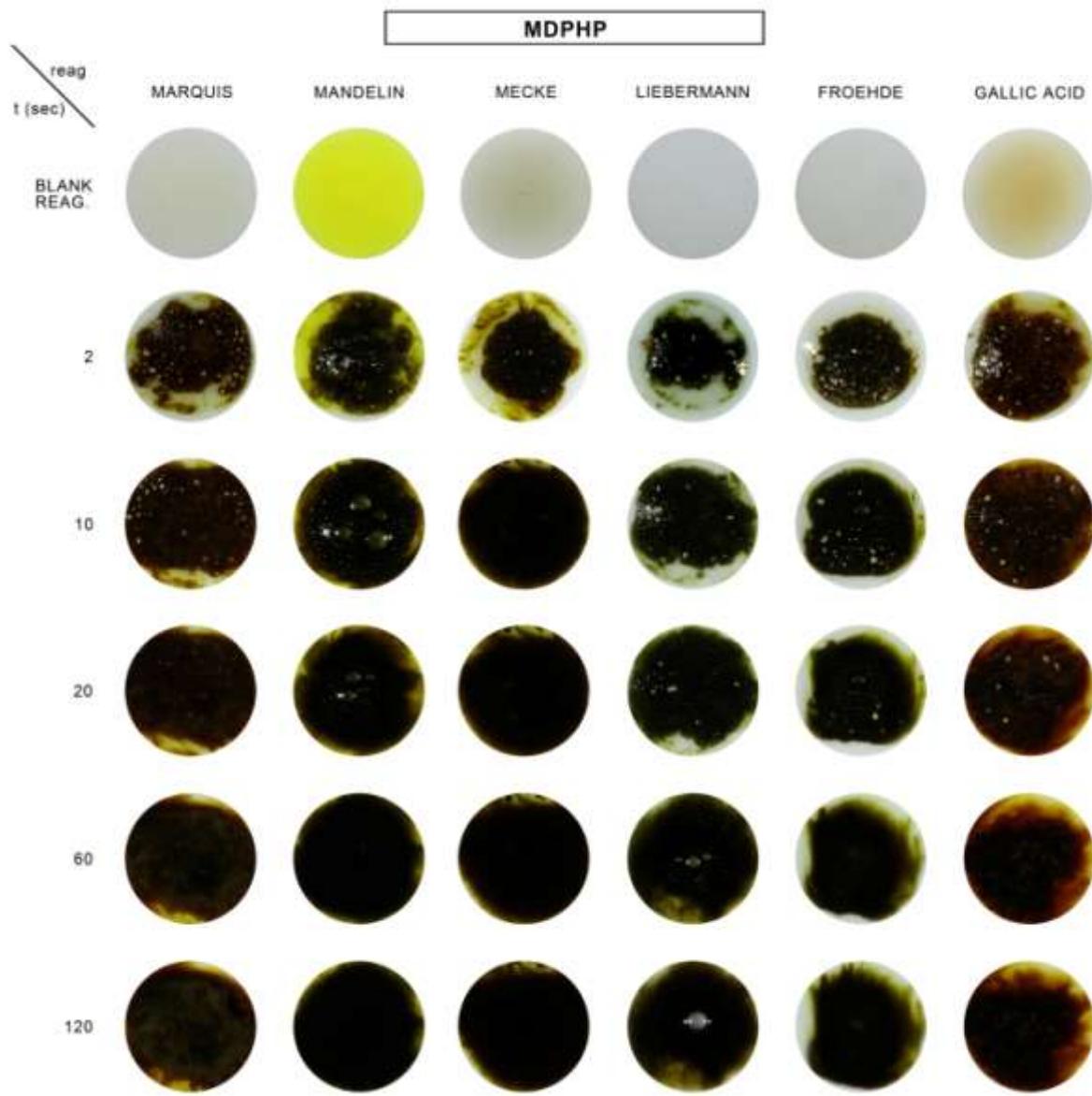


5. Cathinones

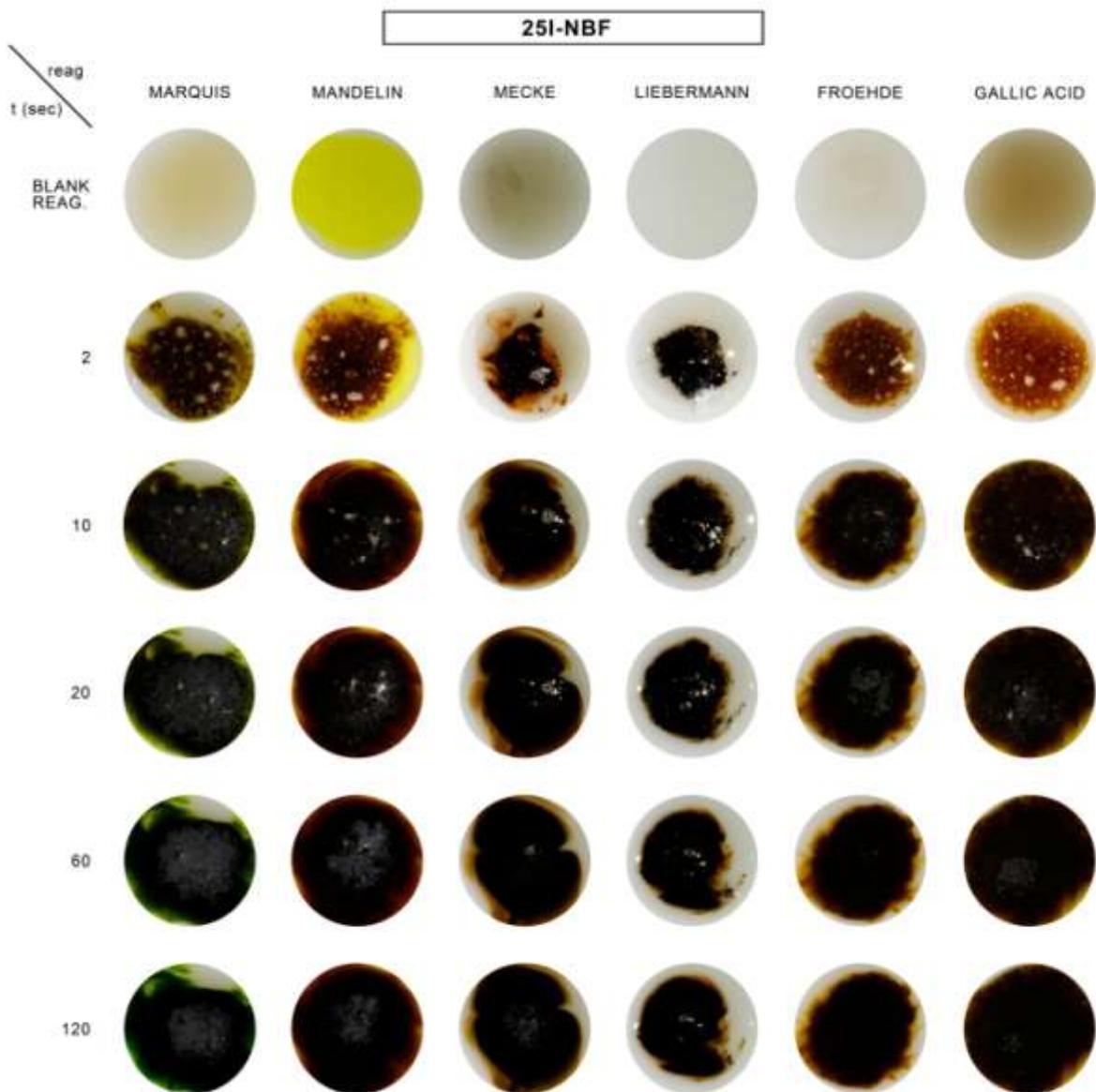
5.1.3-MMC



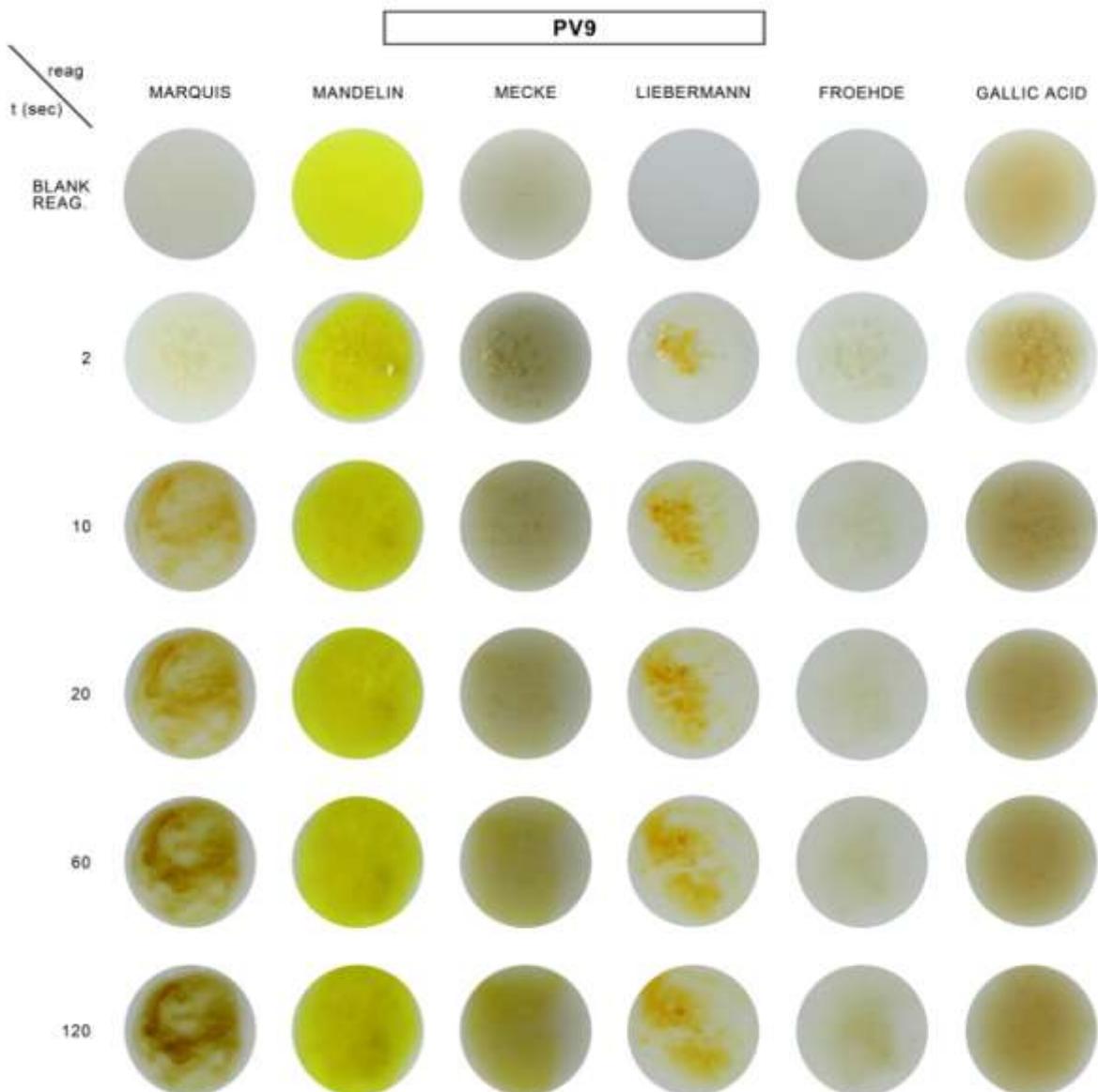
5.2. MDPHP



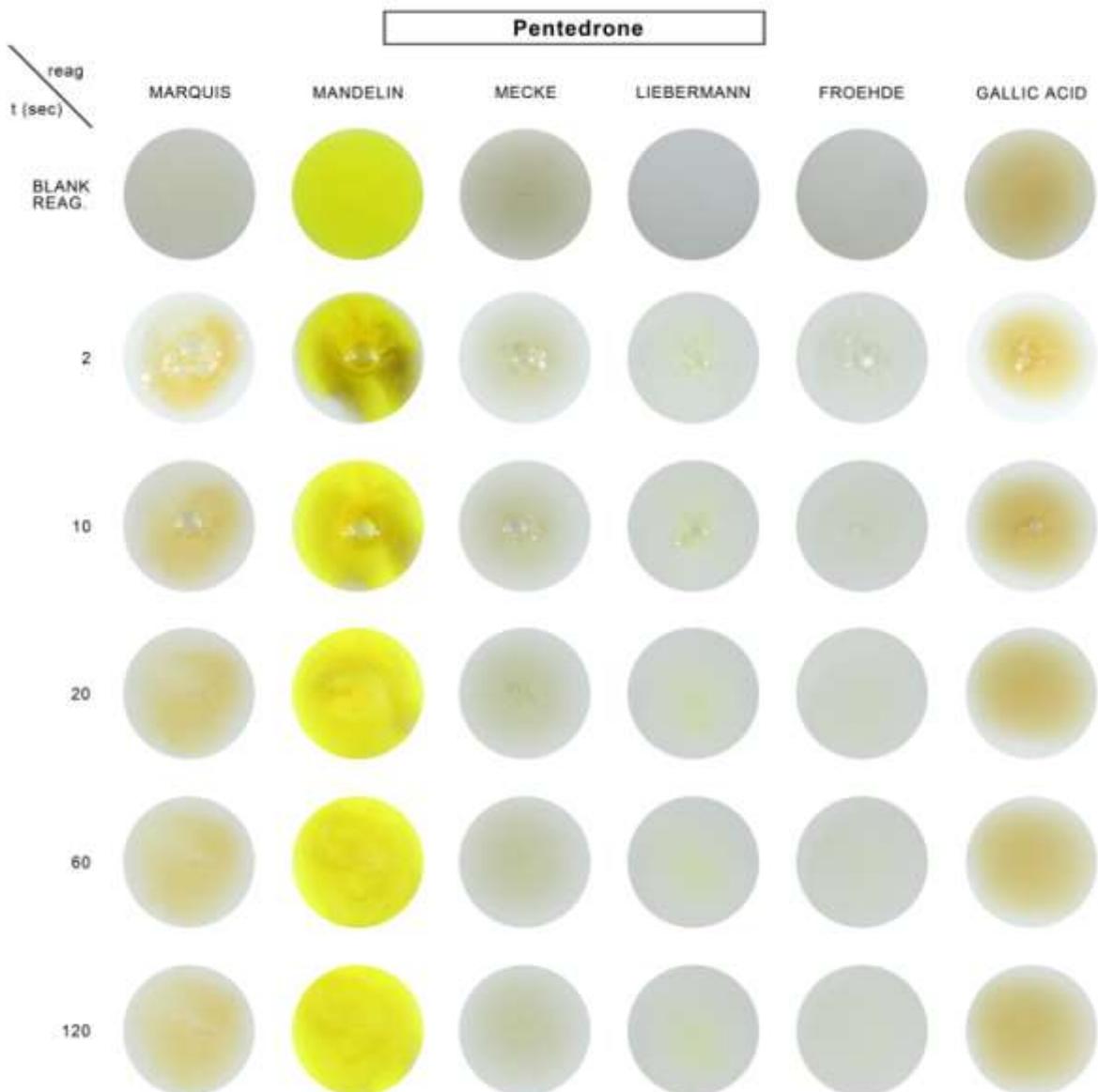
5.3. 25I-NBF



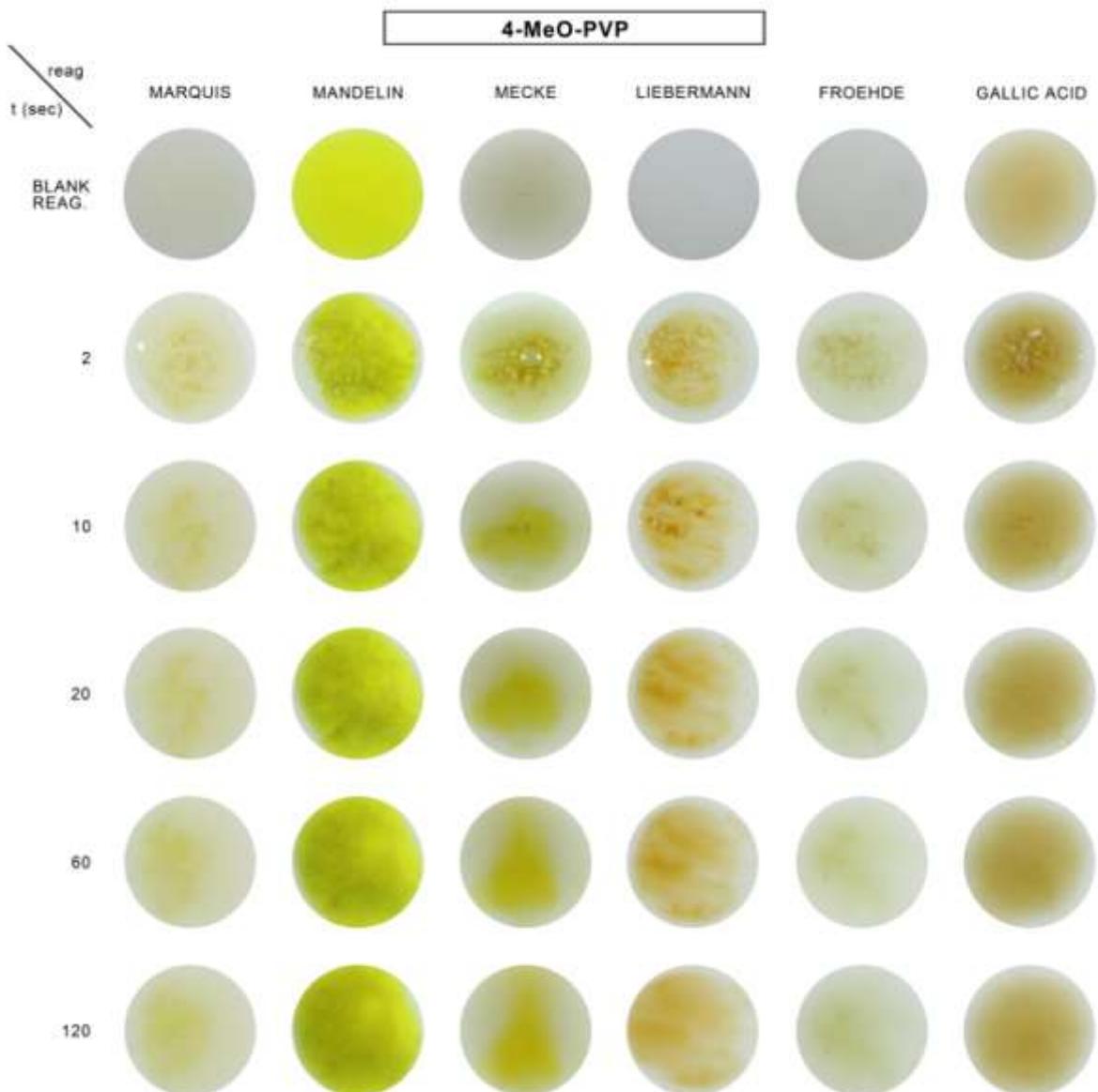
5.4. PV9



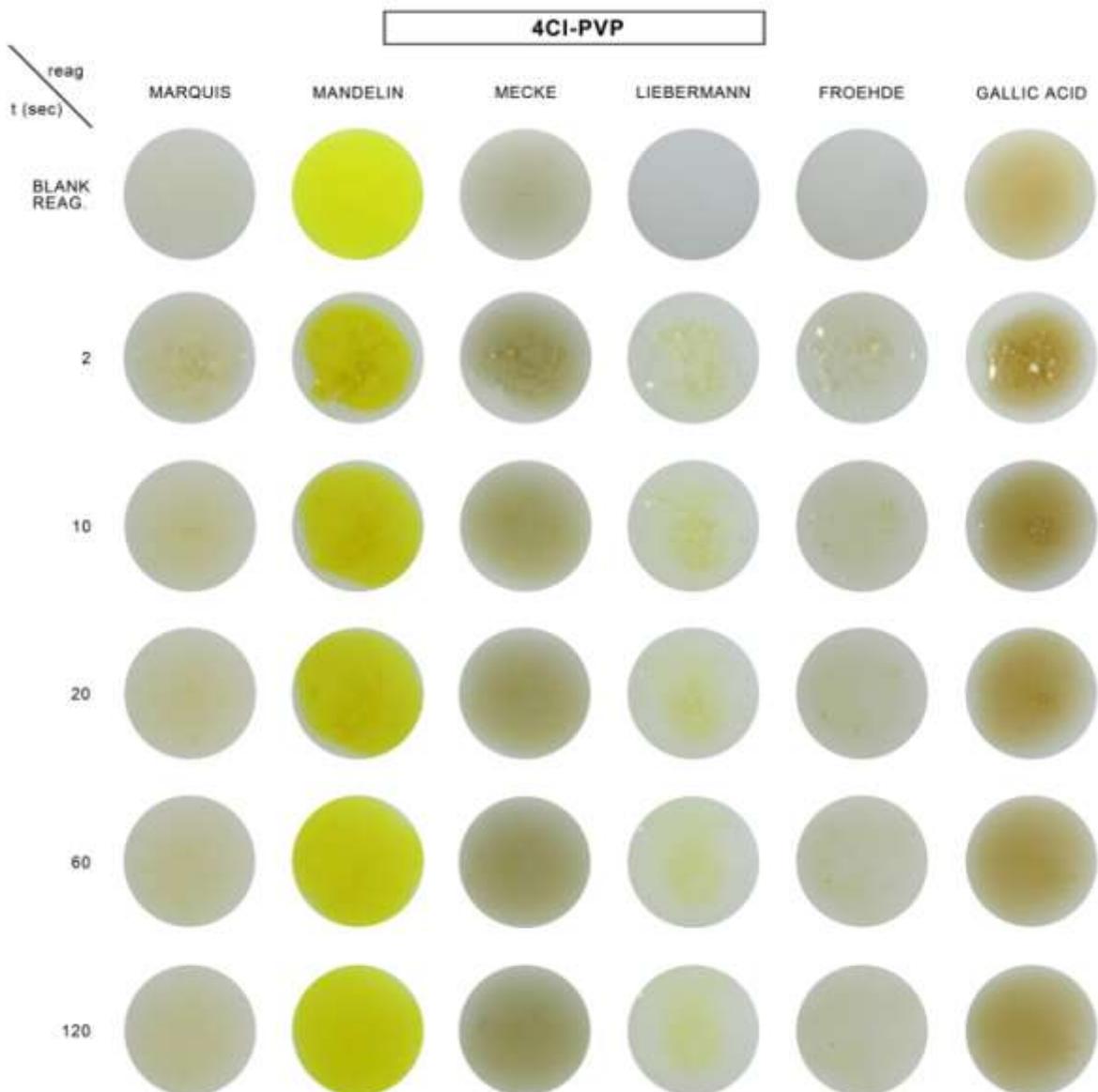
5.5. Pentedrone



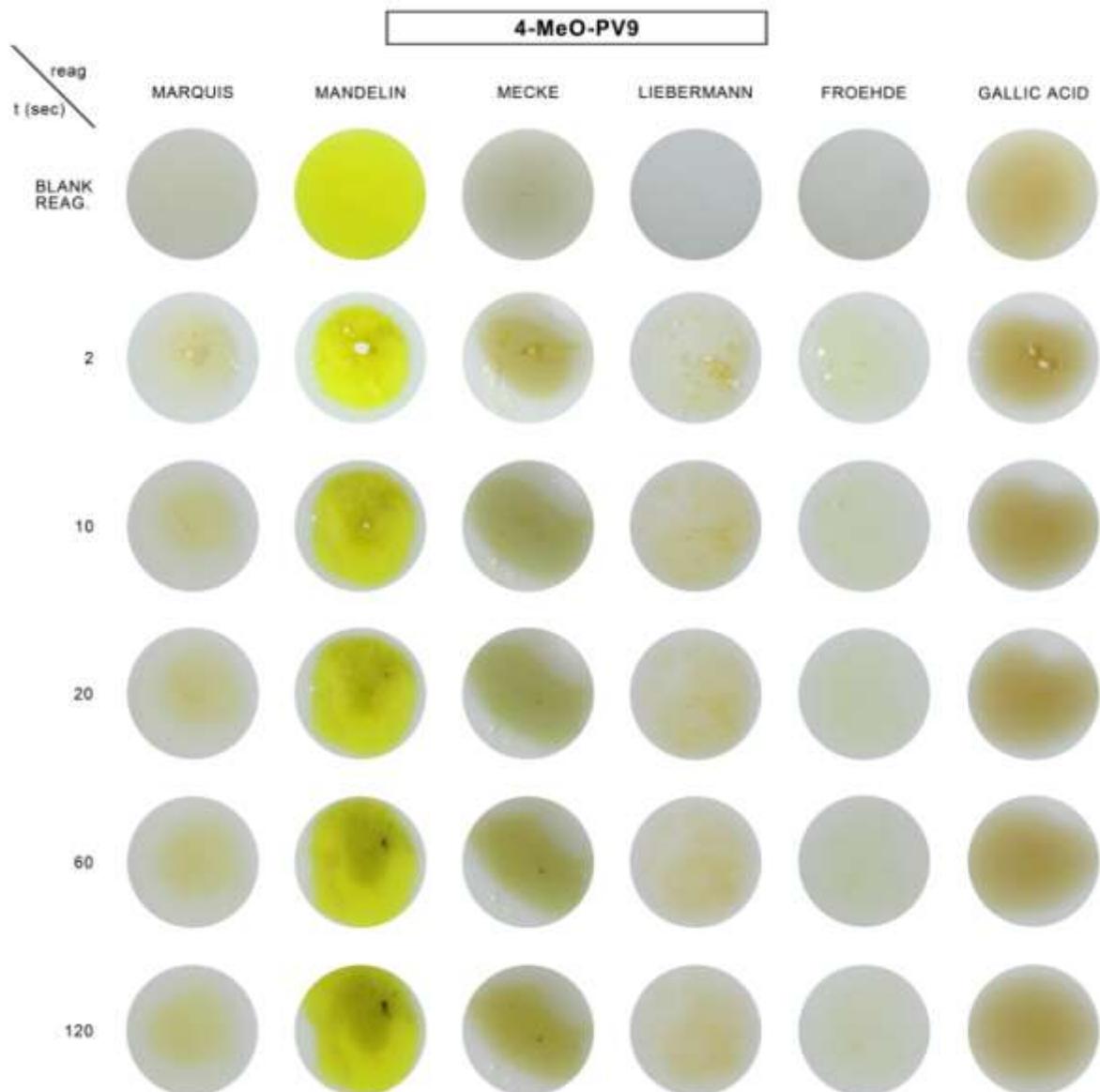
5.6. 4-MeO-PVP



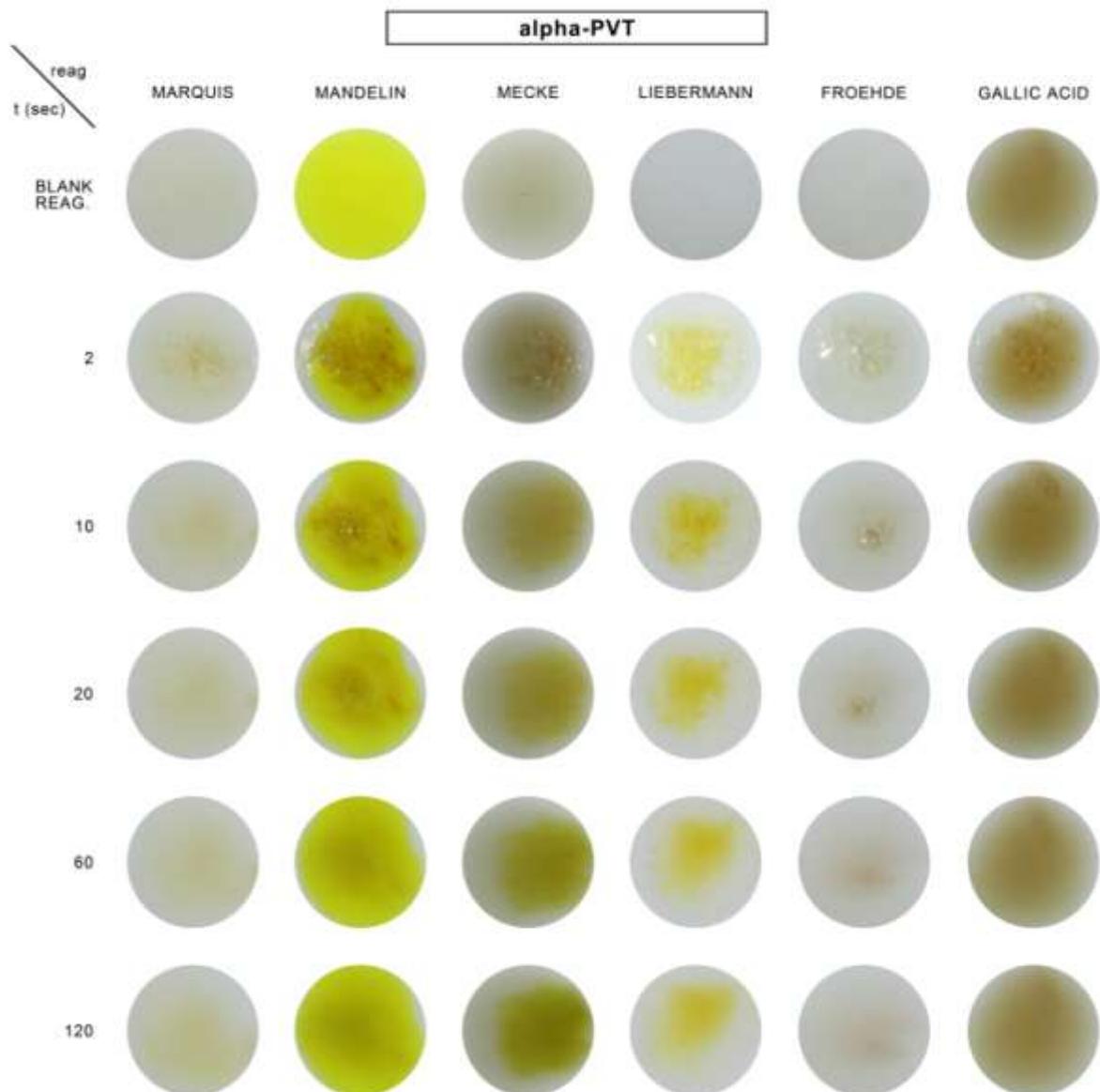
5.7.4Cl-PVP



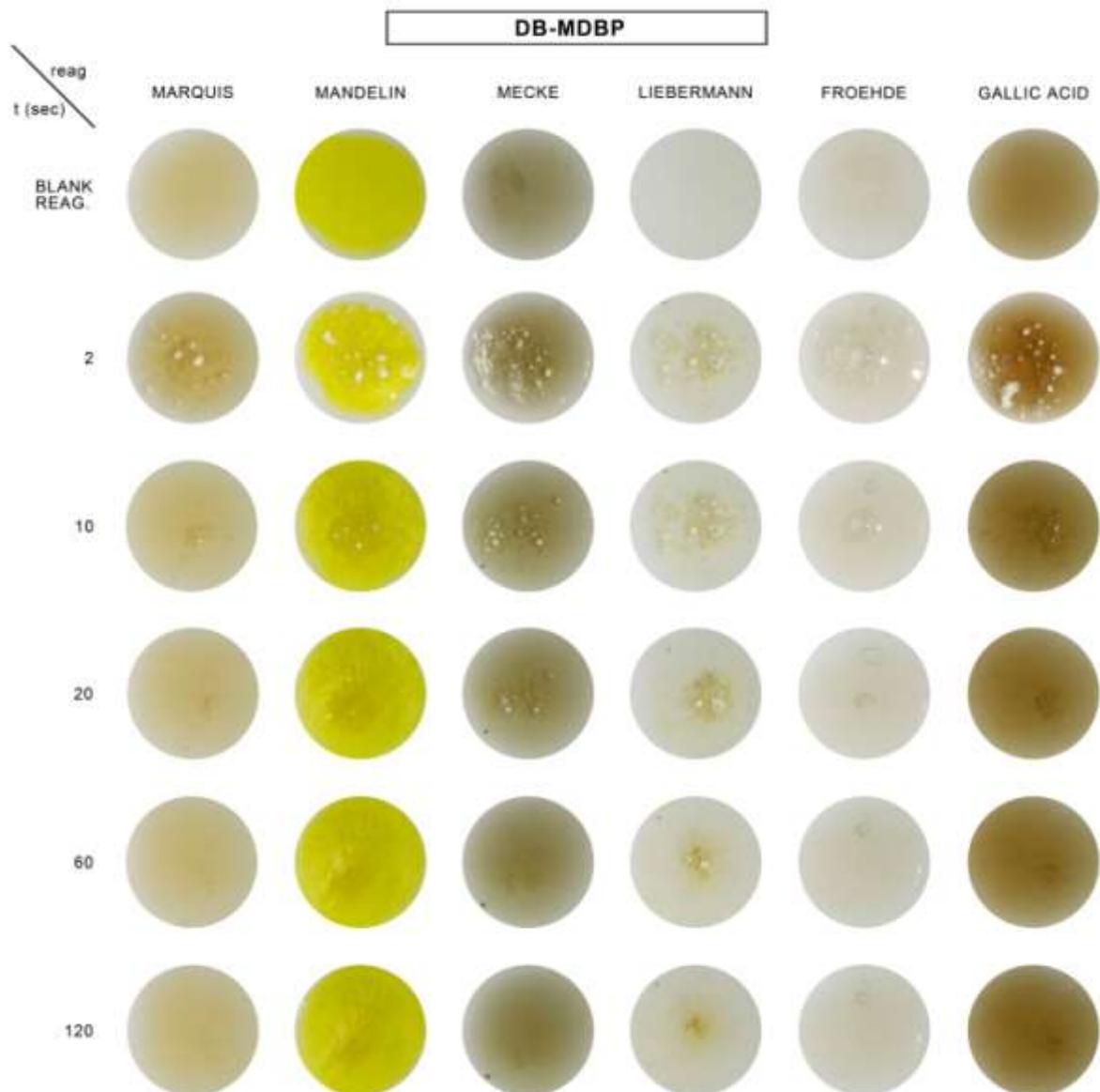
5.8. 4-MeO-PV9



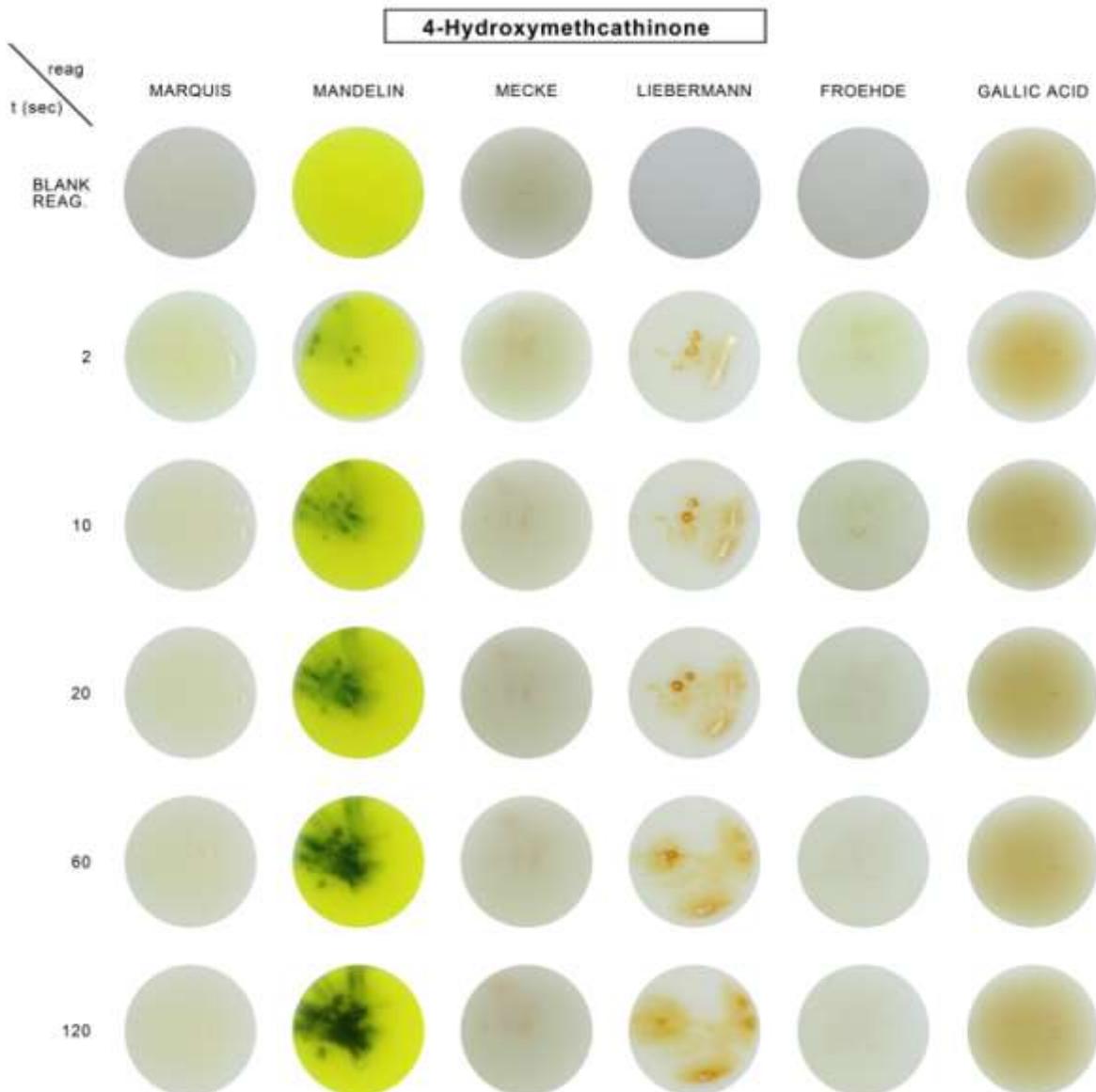
5.9. alpha-PVT



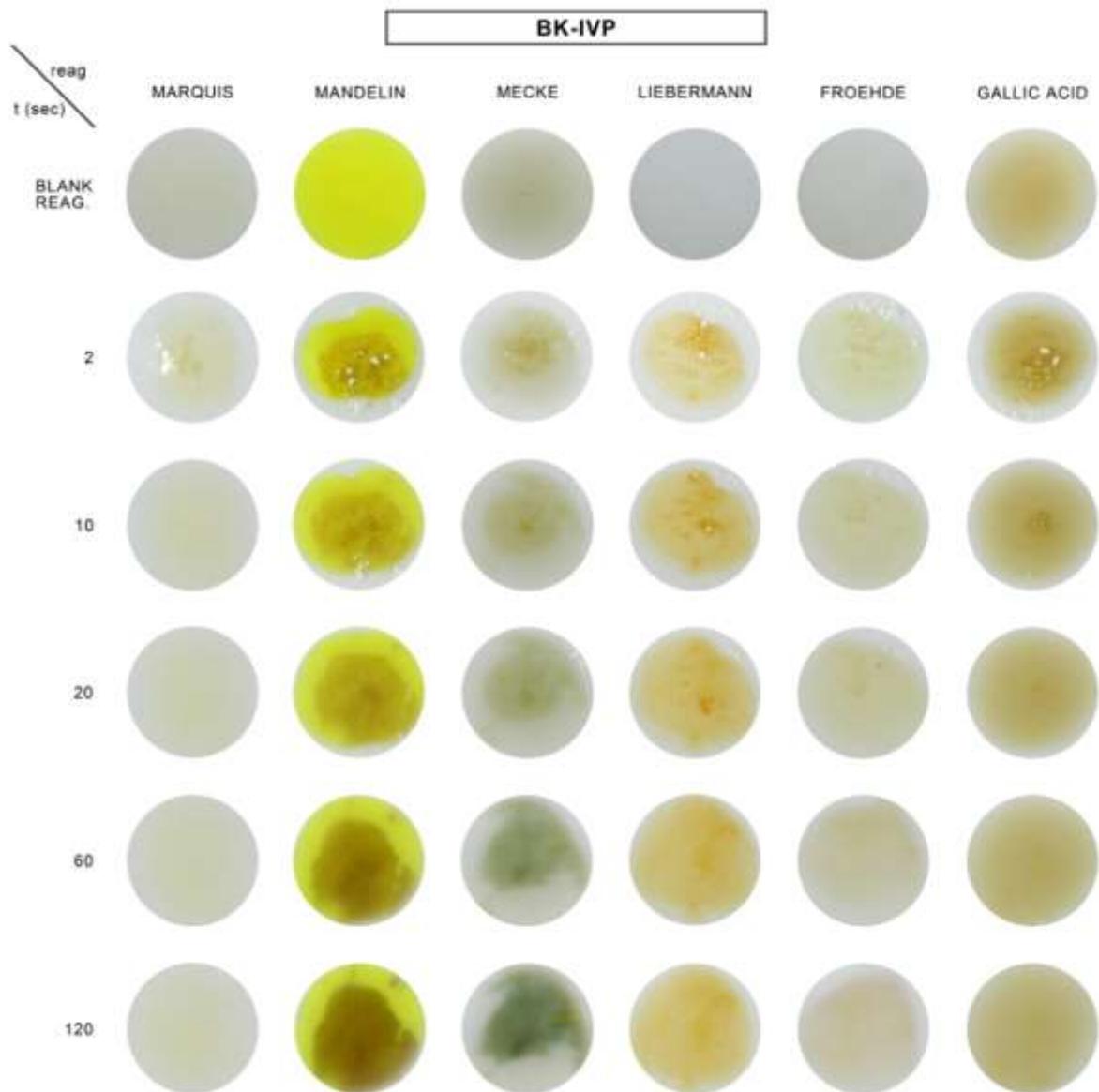
5.10. DB-MDBP



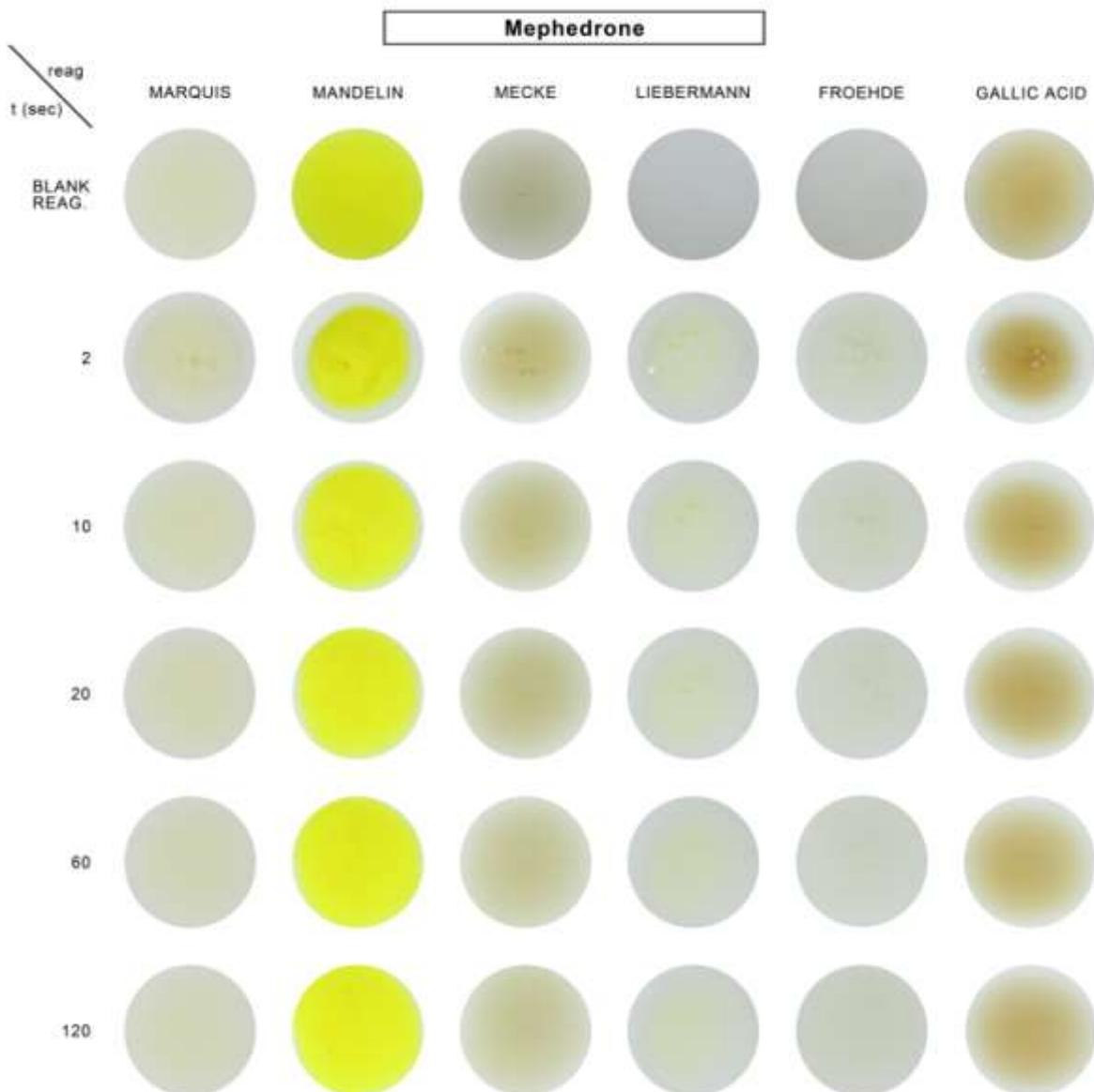
5.11. 4-Hydroxymethcathinone



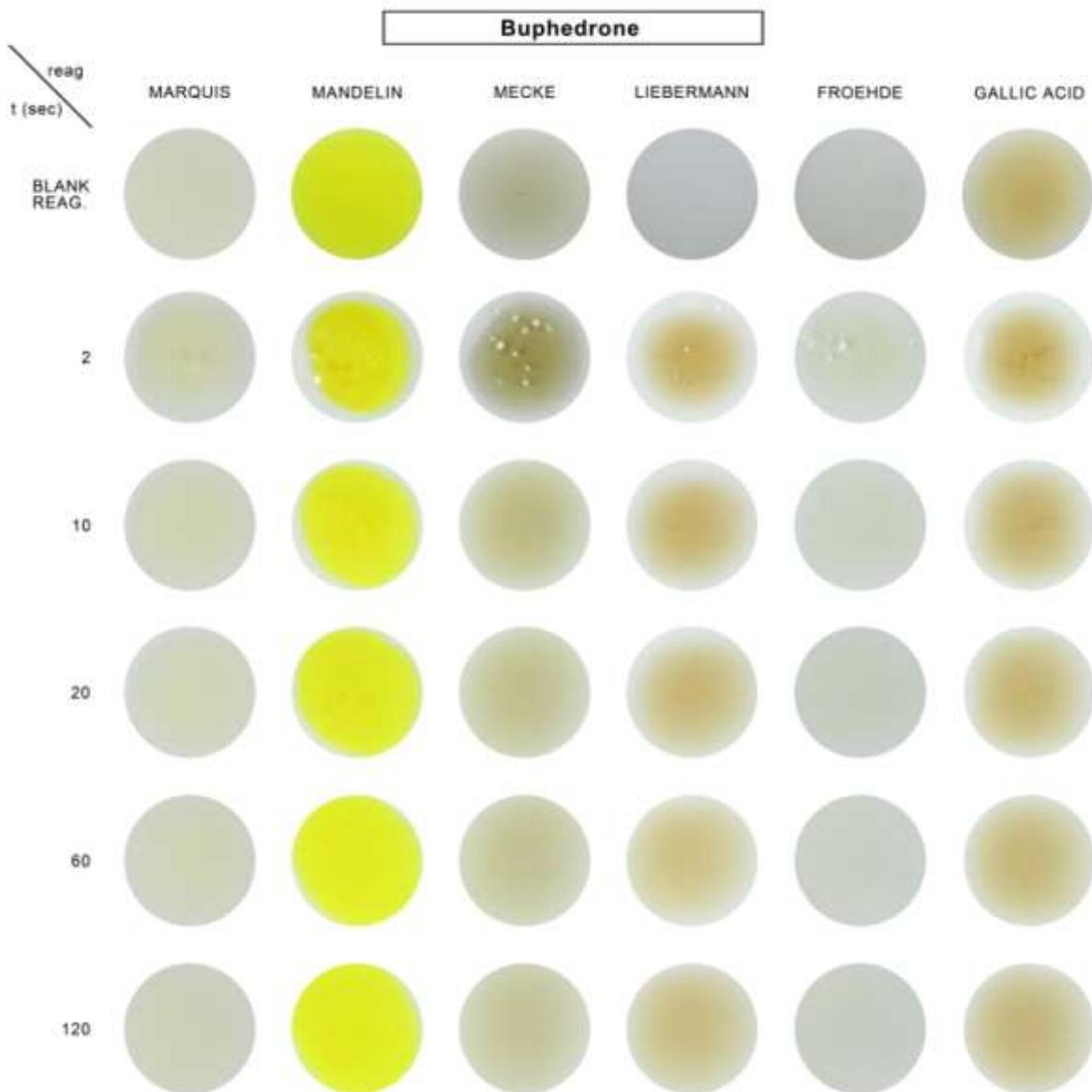
5.12. BK-IVP



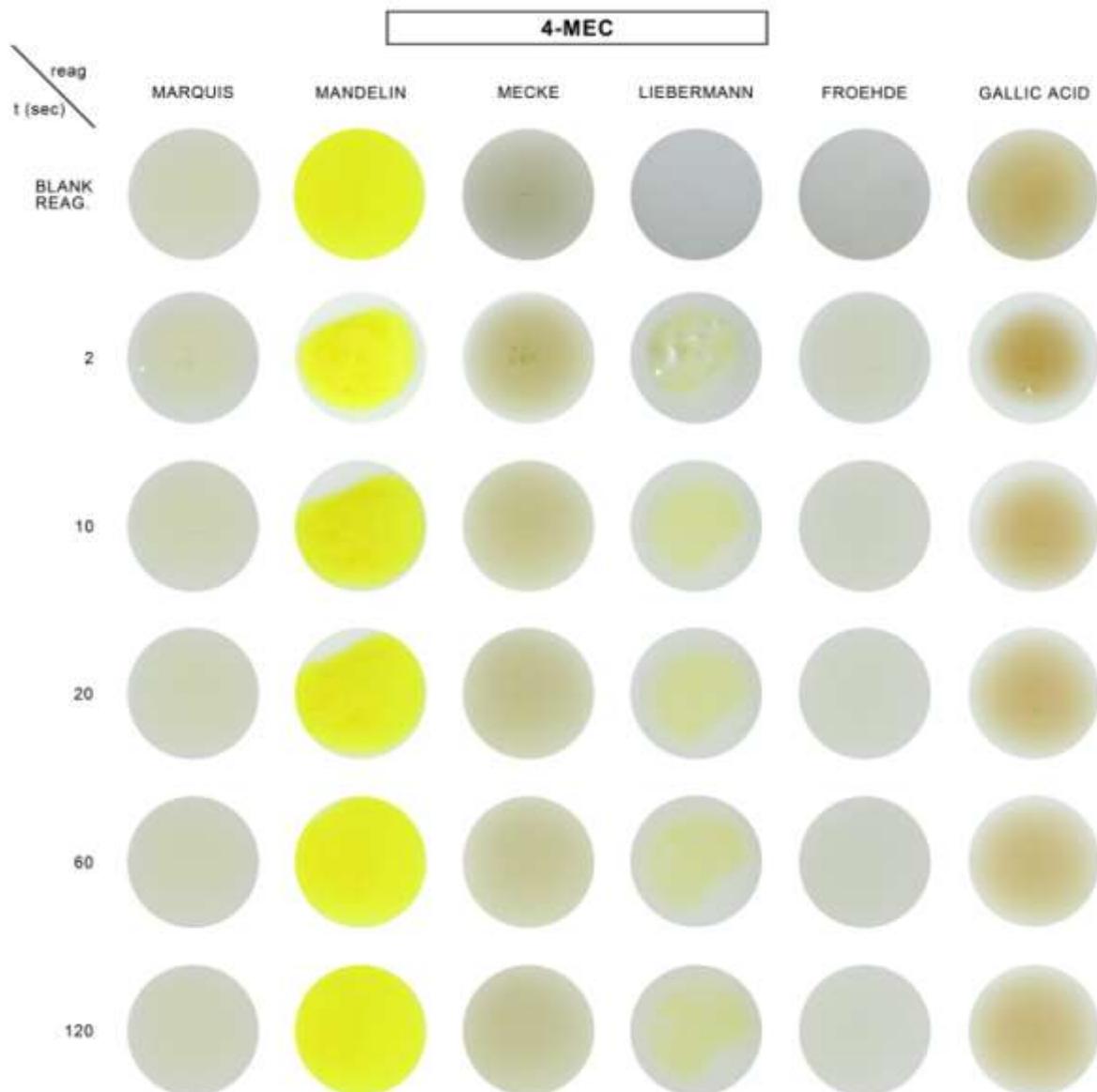
5.13. Mephedrone



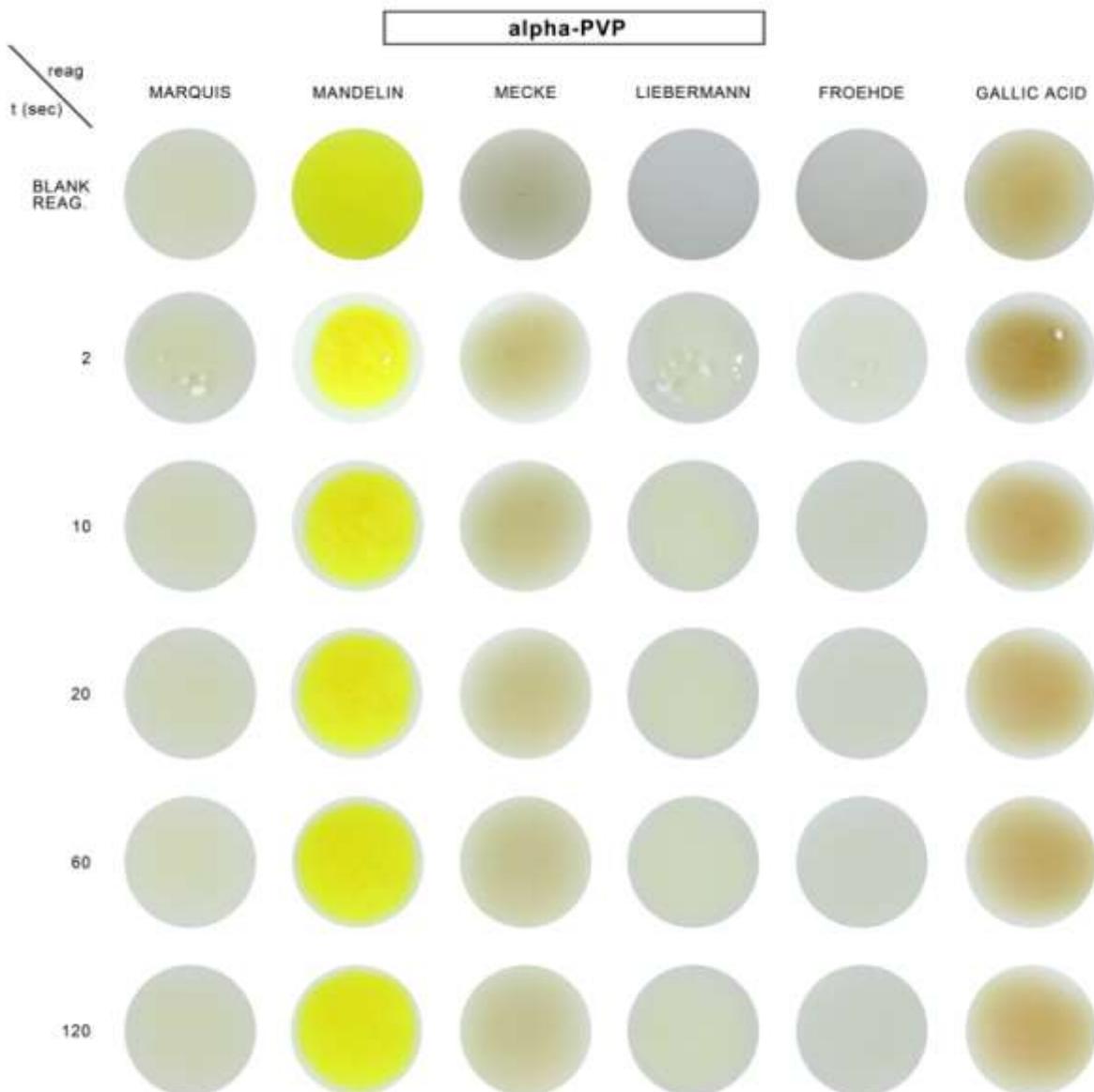
5.14. Buphedrone



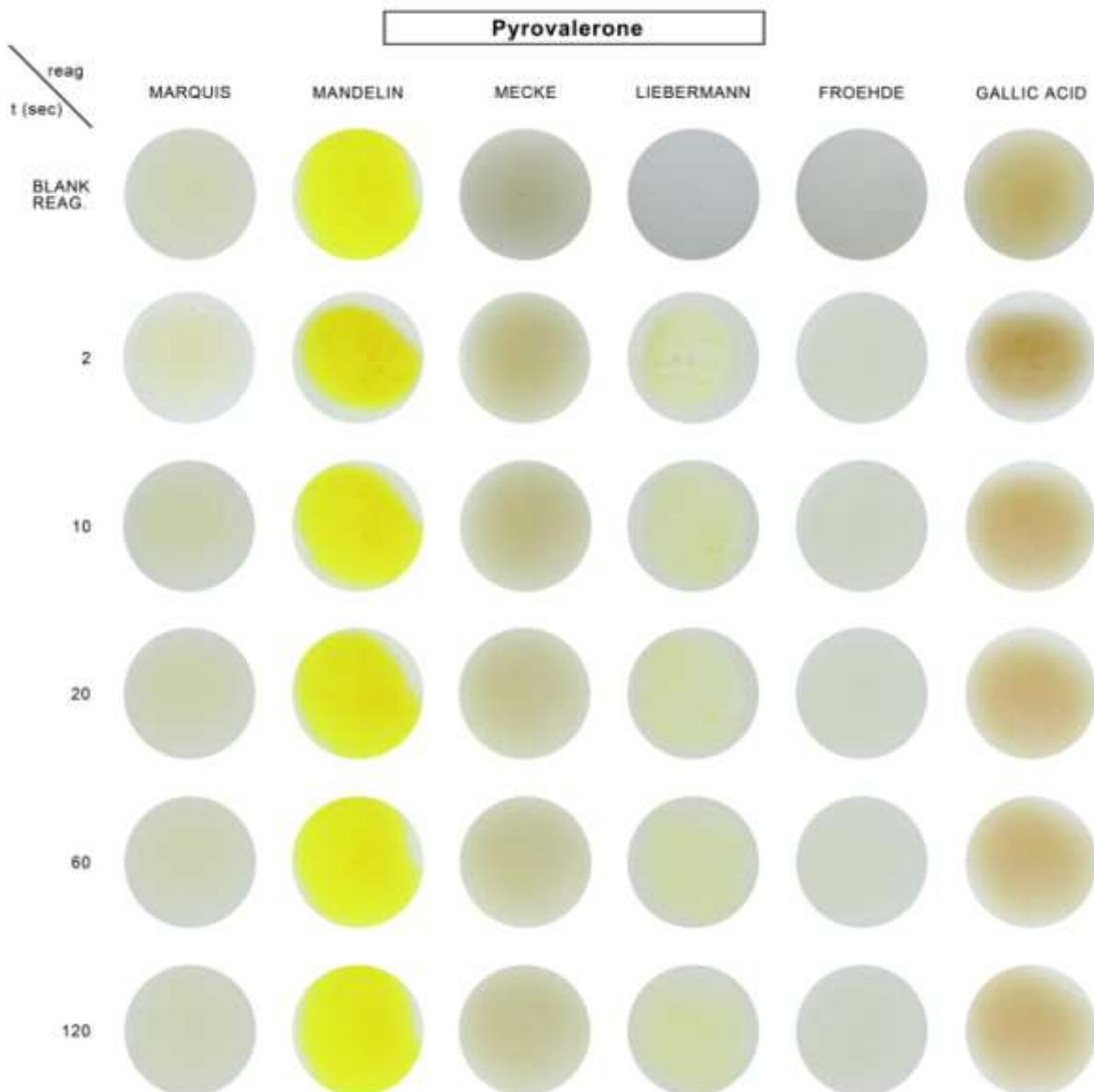
5.15. 4-MEC



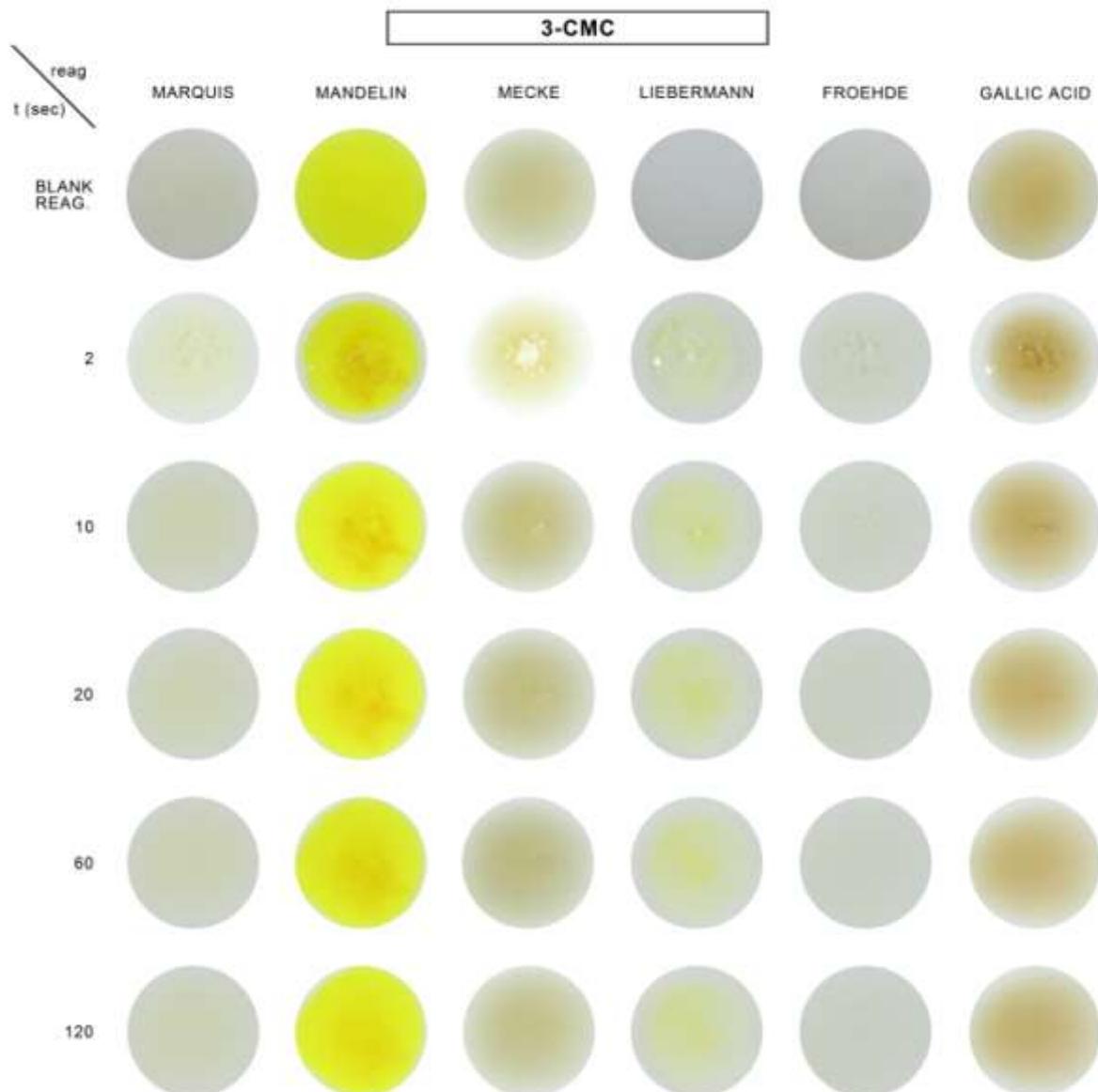
5.16. alpha-PVP



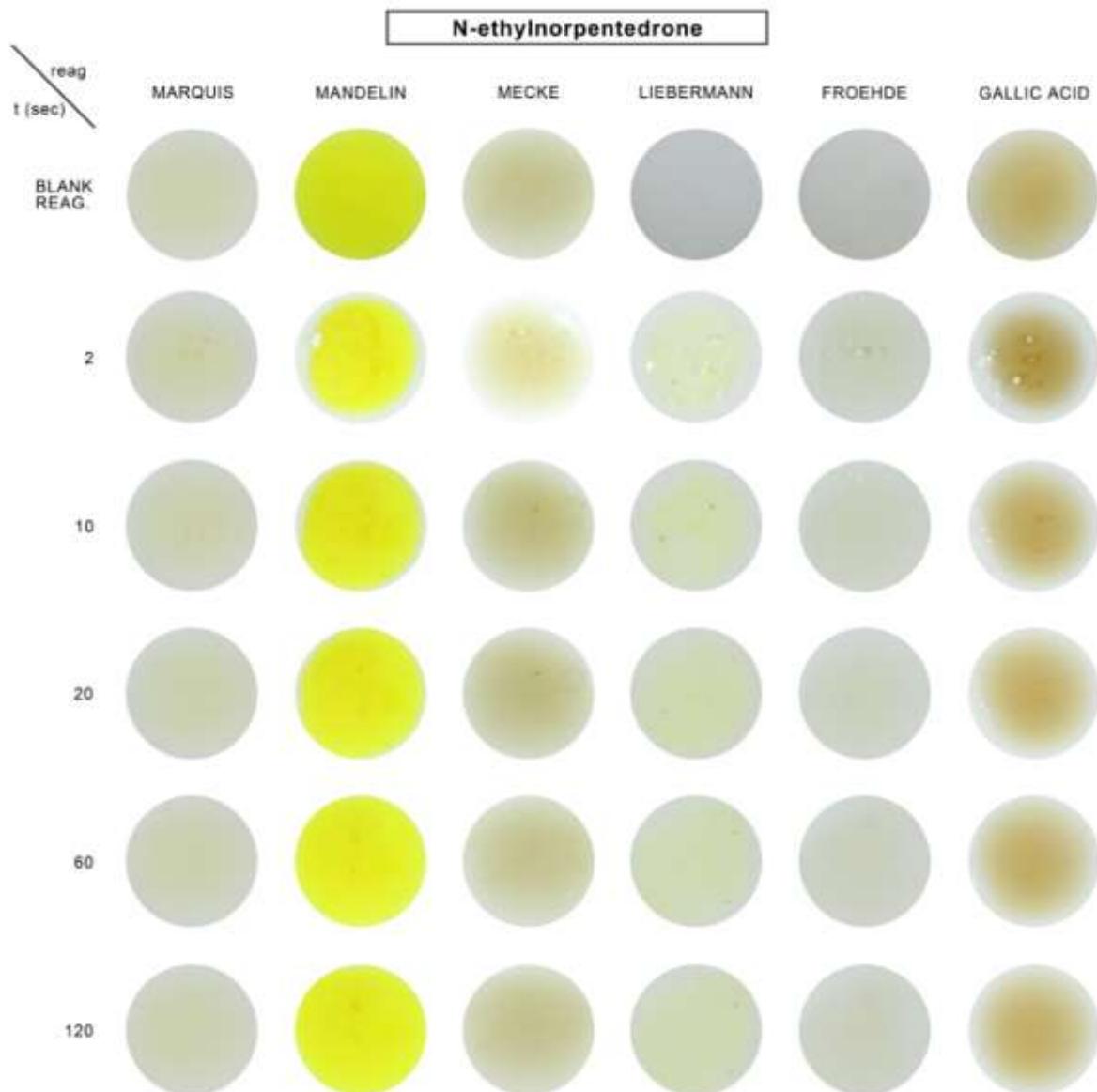
5.17. Pyrovalerone



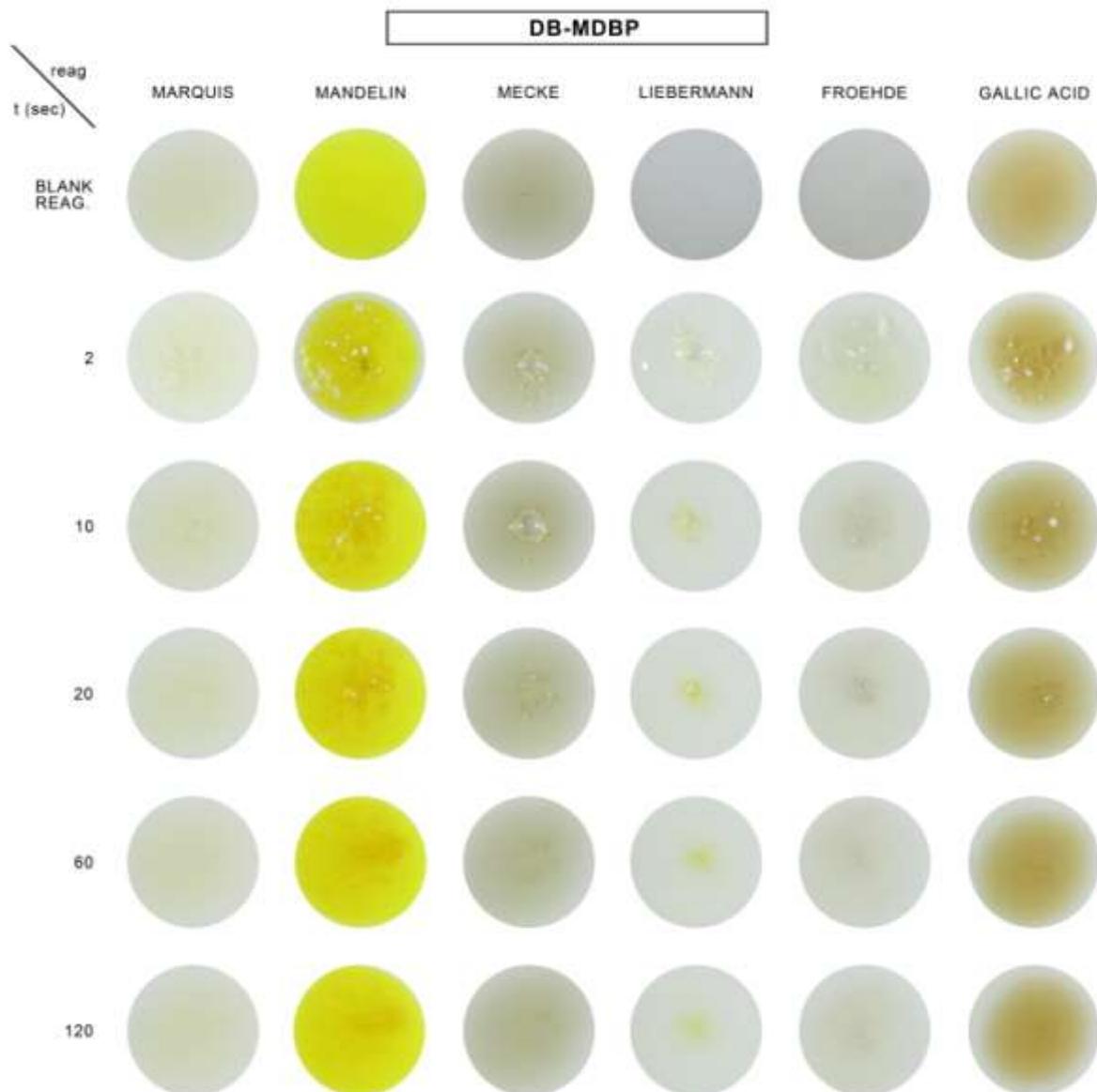
5.18. 3-CMC



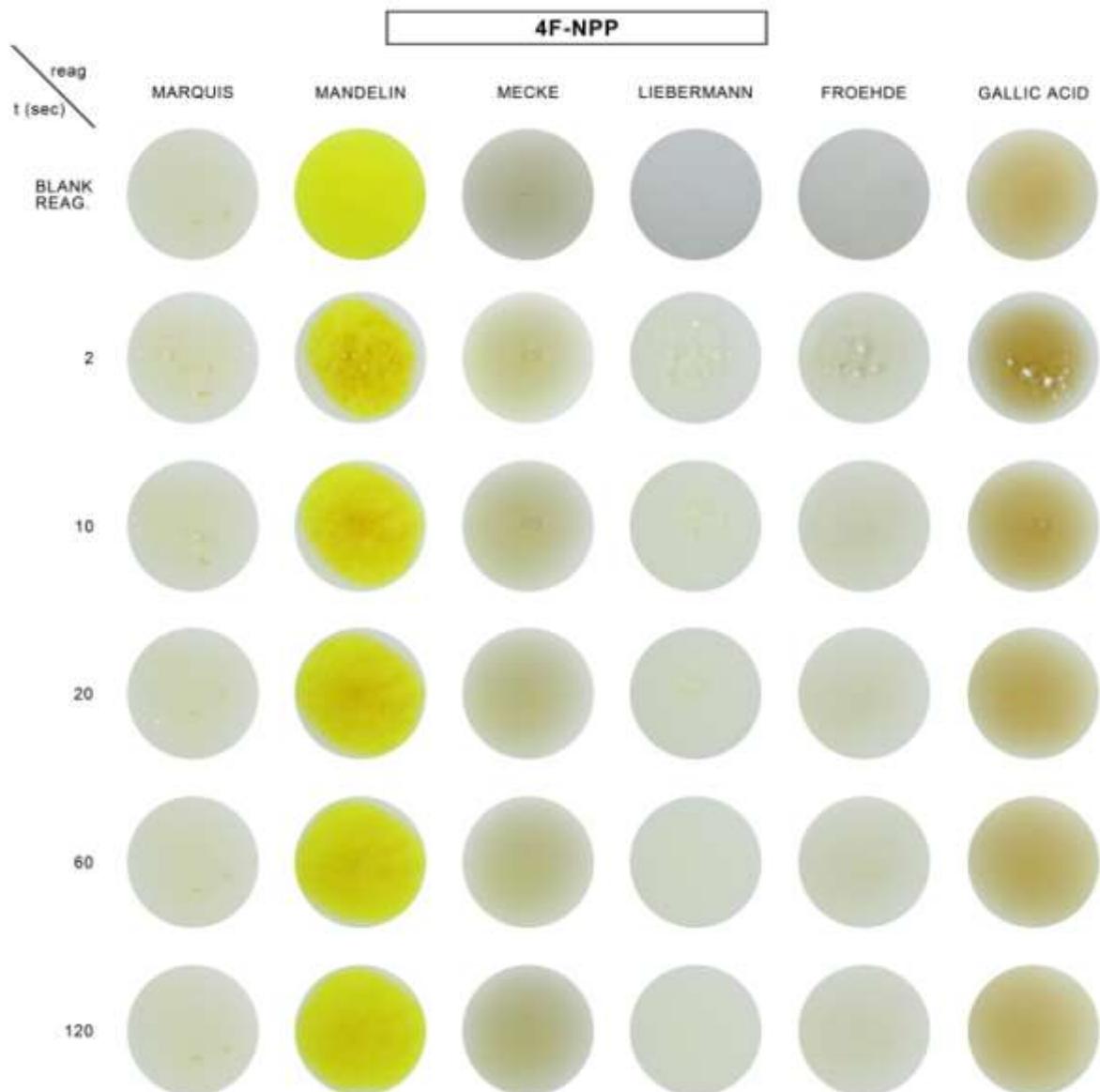
5.19. N-ethylnorpentedrone



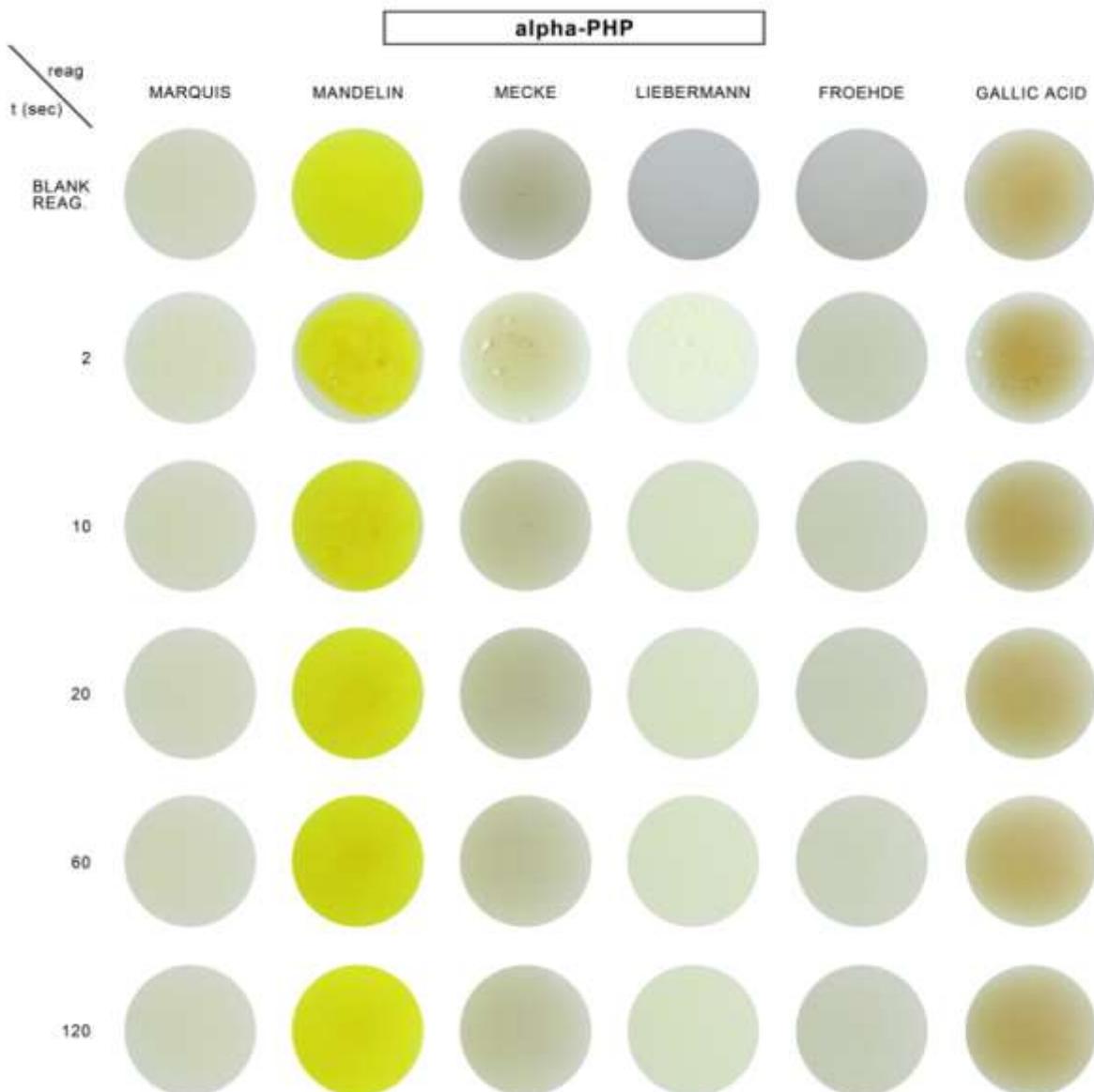
5.20. DB-MDBP



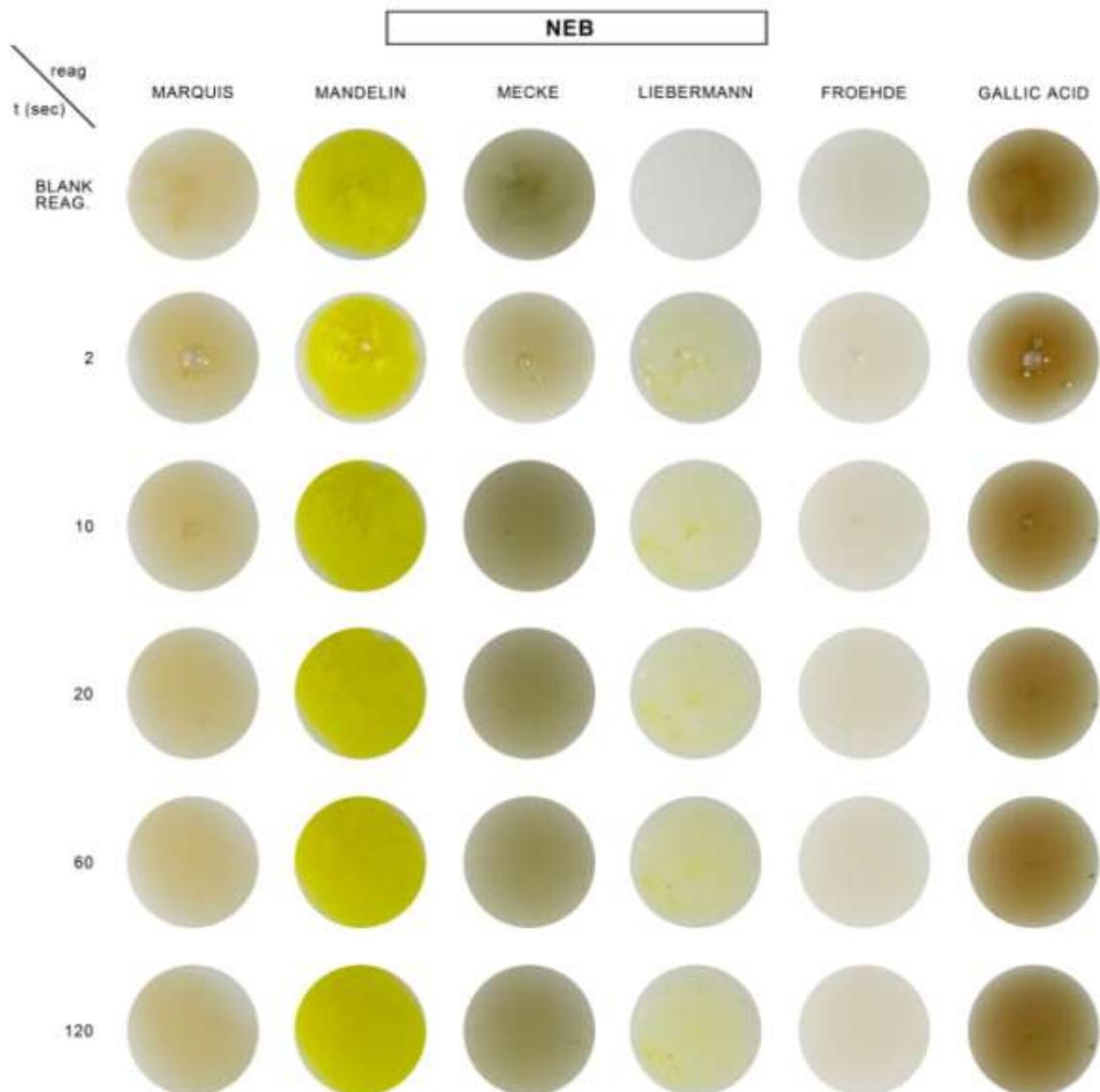
5.21. 4F-NPP



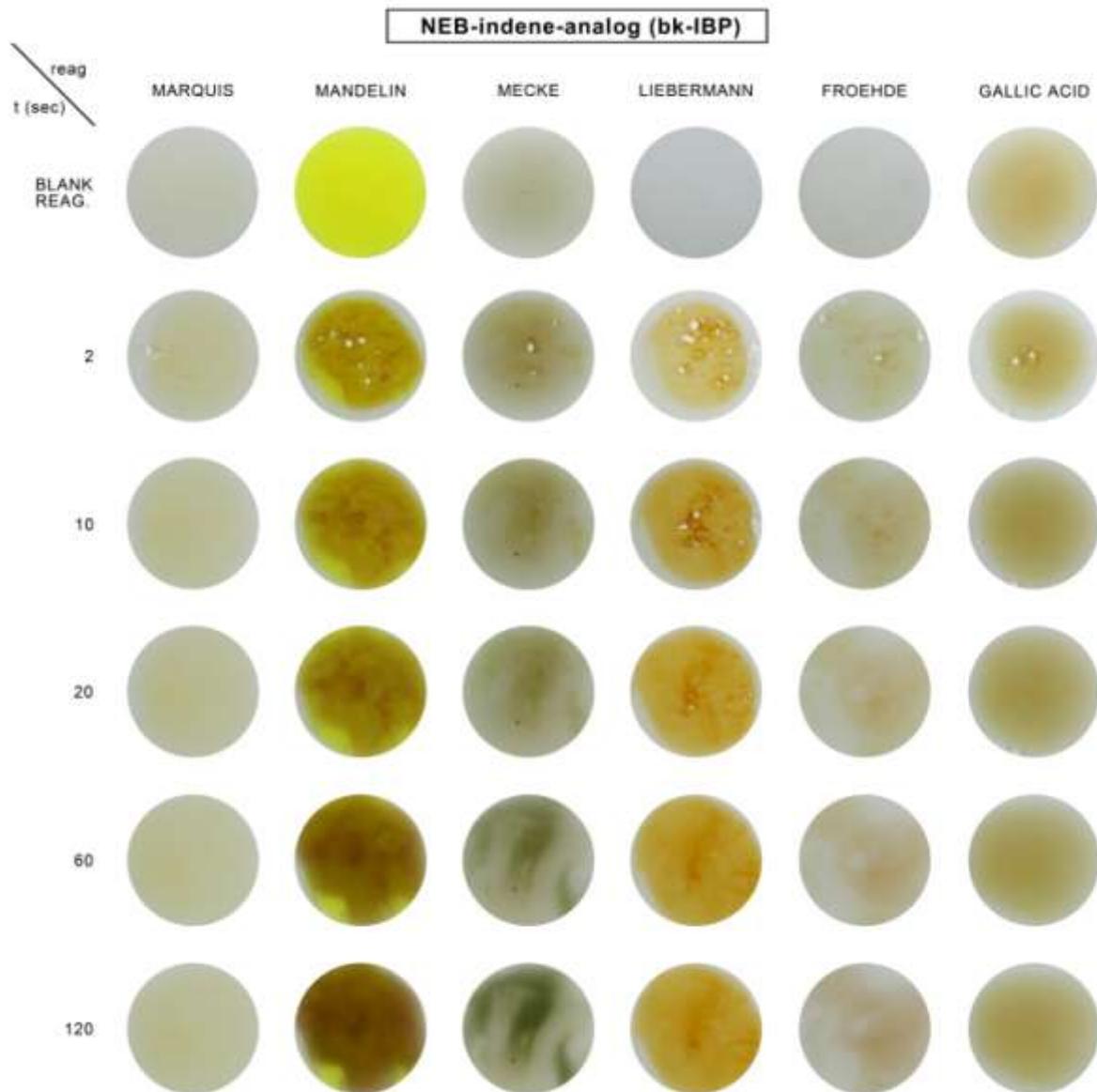
5.22. alpha-PHP



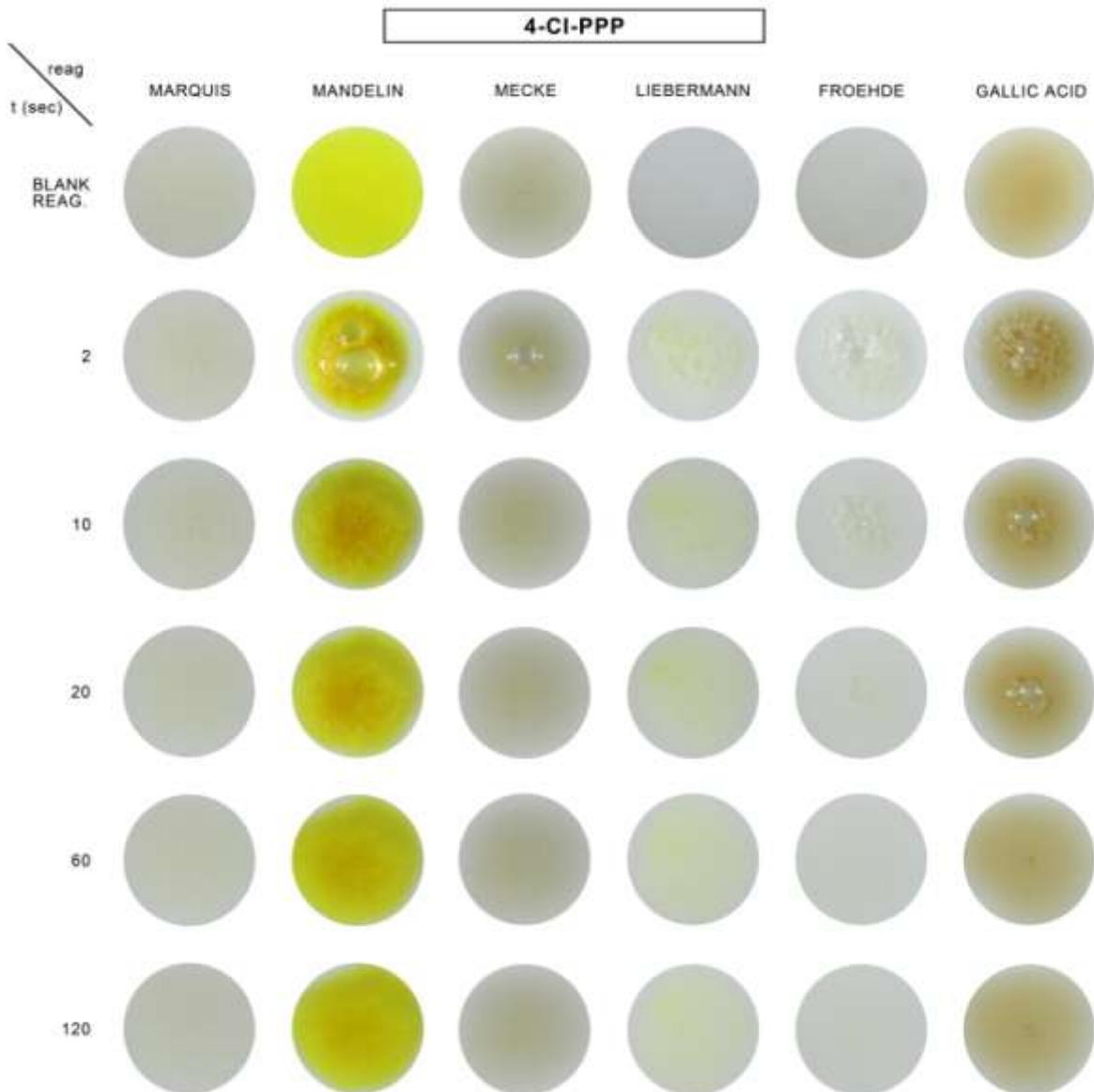
5.23. NEB



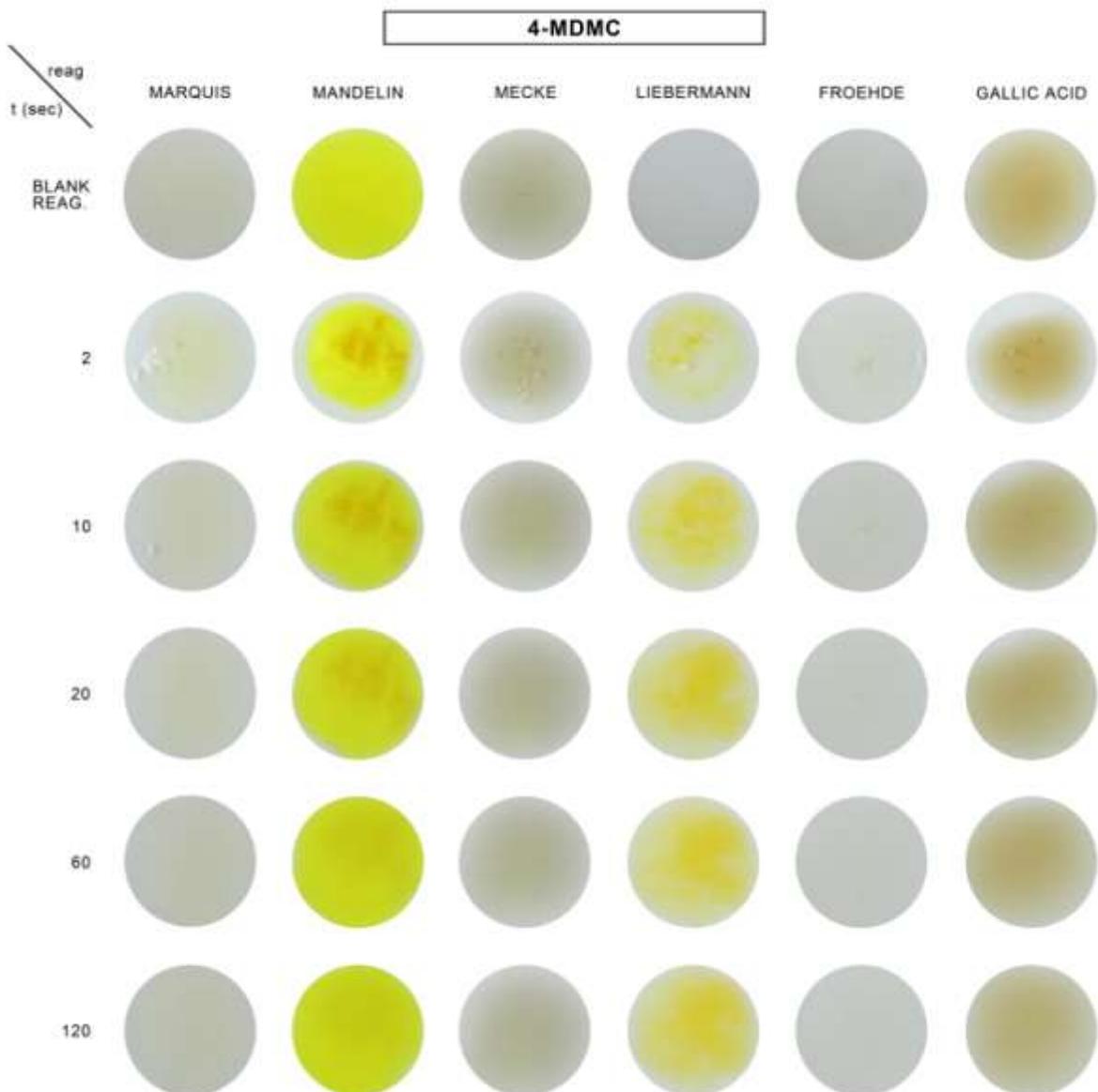
5.24. NEB-indene-analog_(bk-IBP)



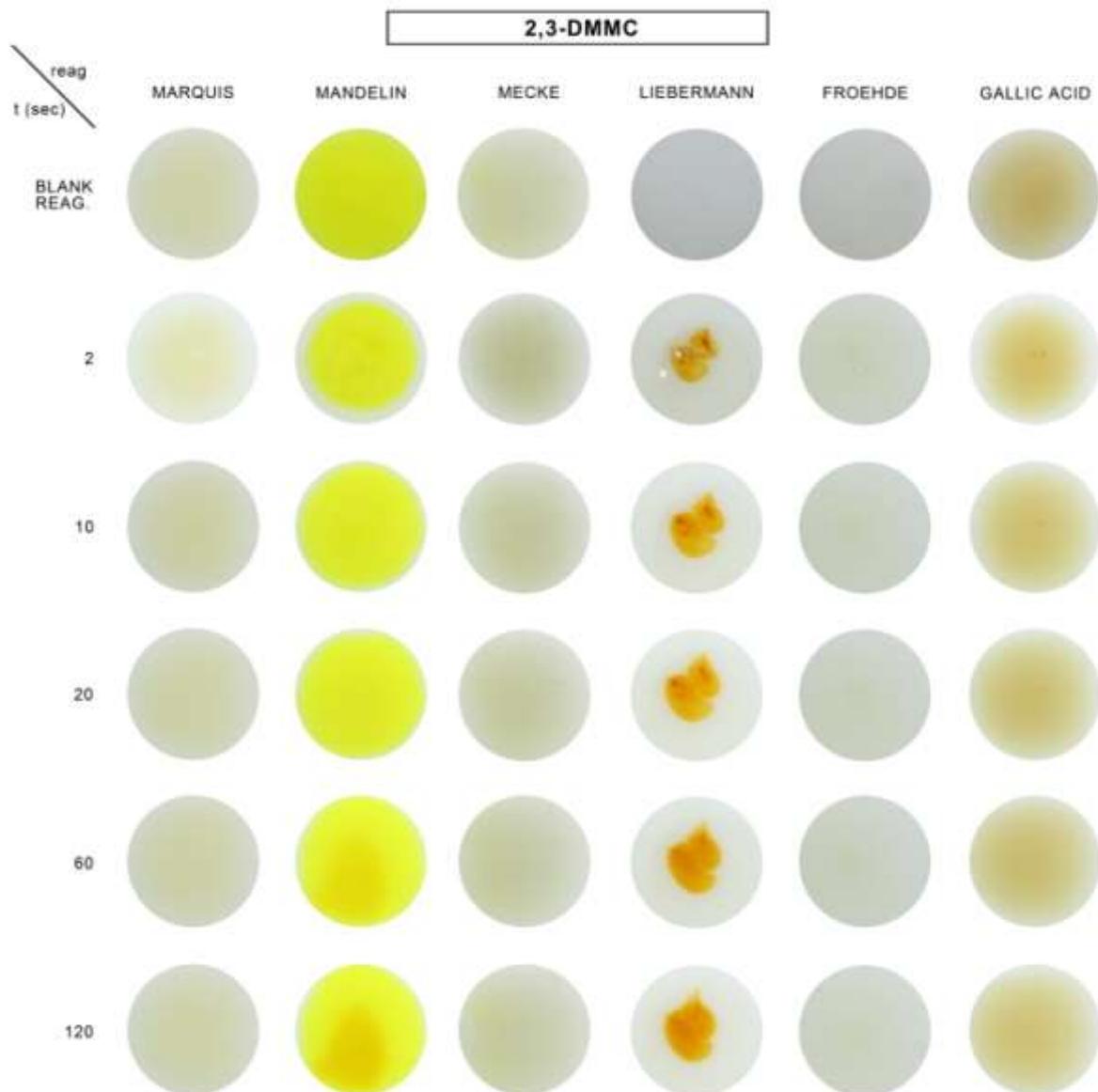
5.25. 4-Cl-PPP



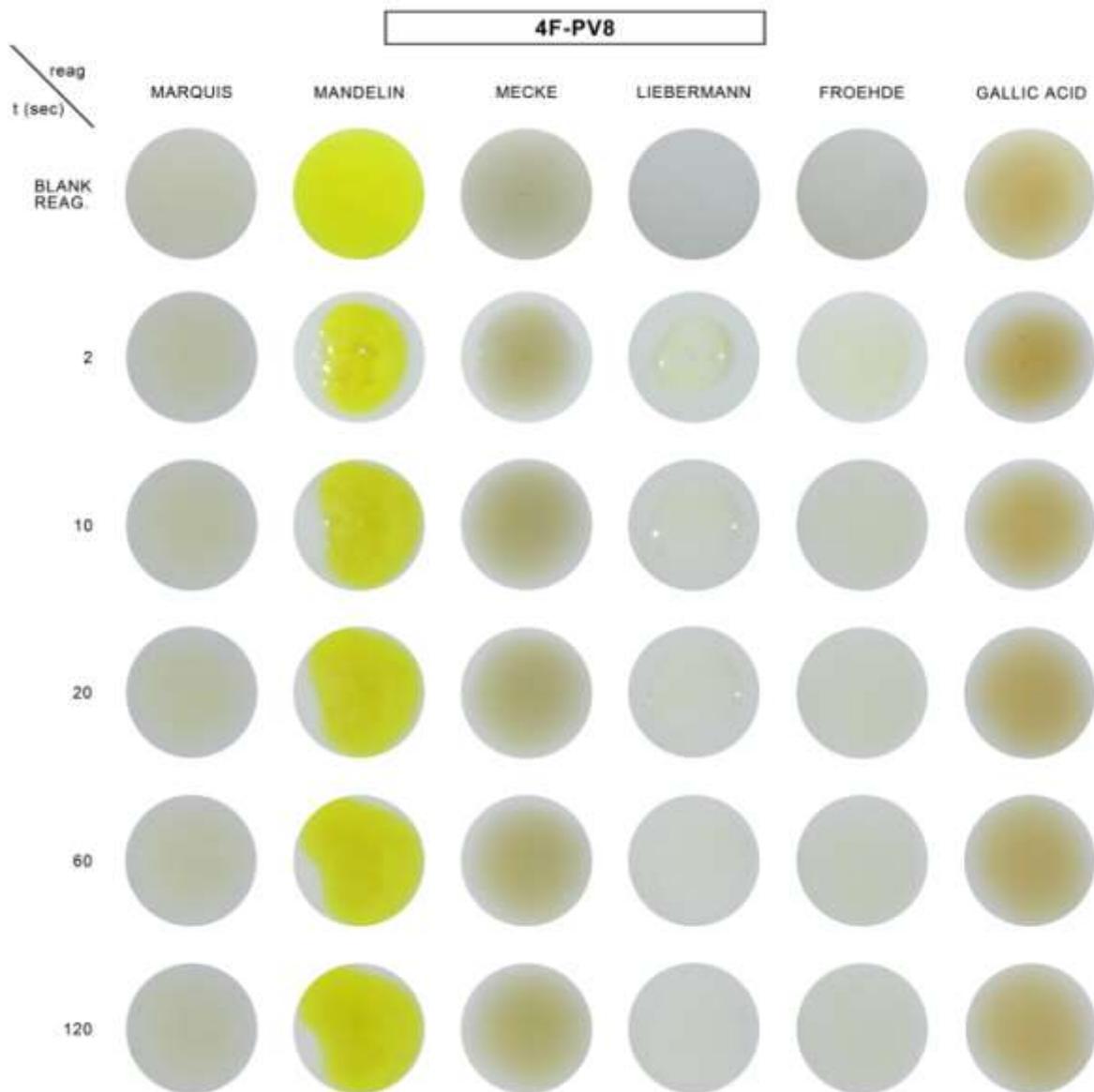
5.26. 4-MDMC



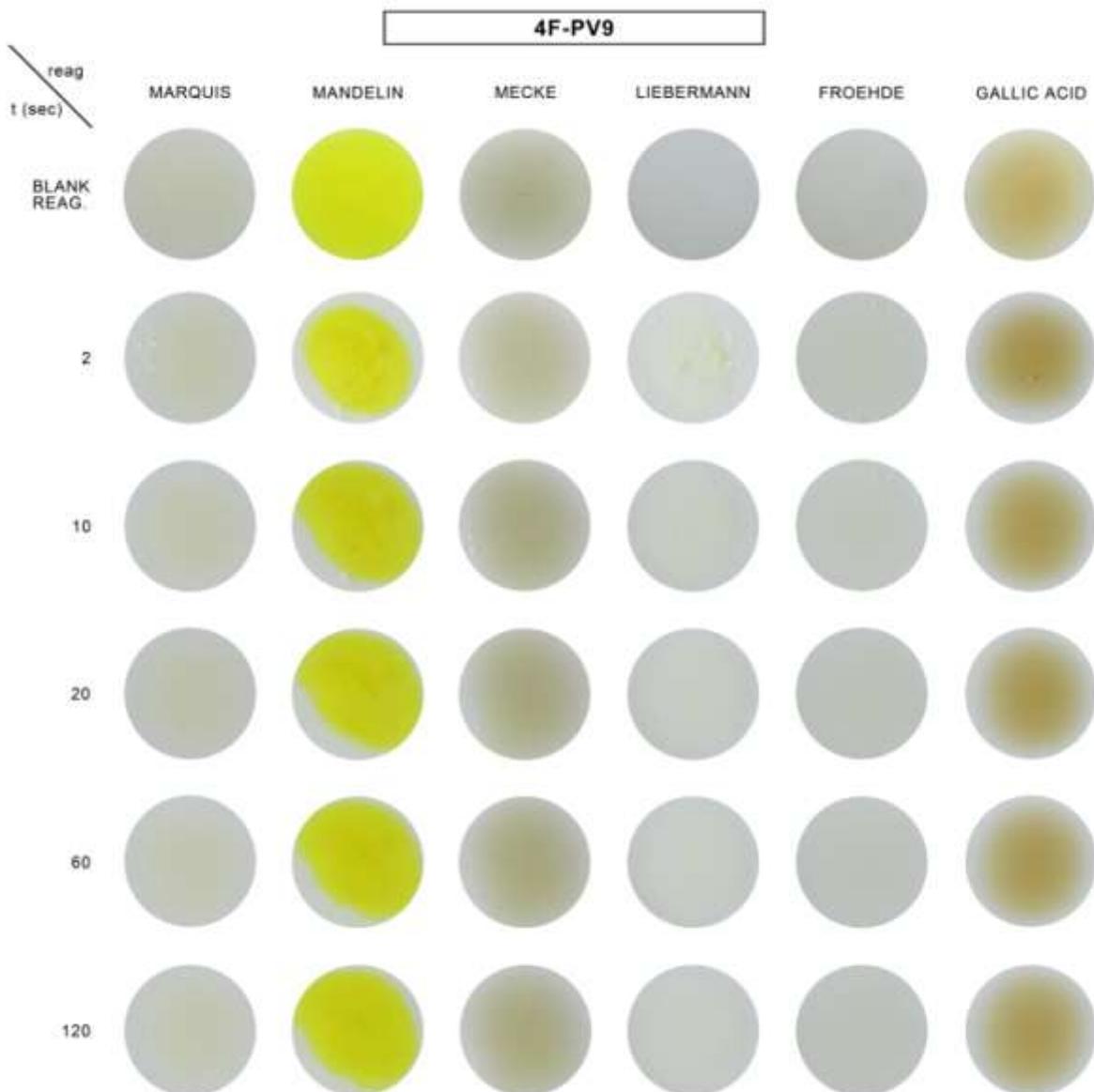
5.27. 2,3-DMMC



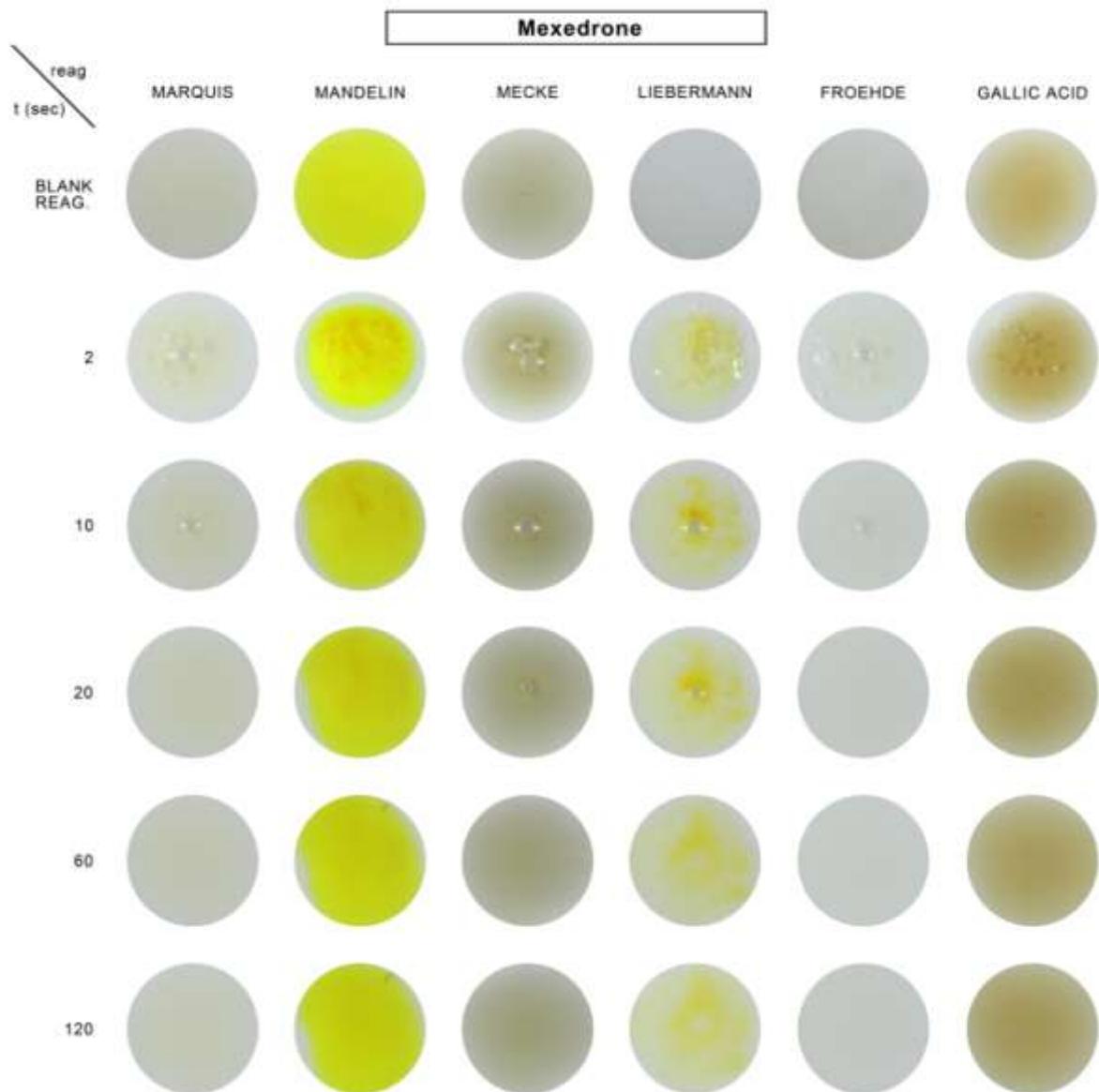
5.28. 4F-PV8



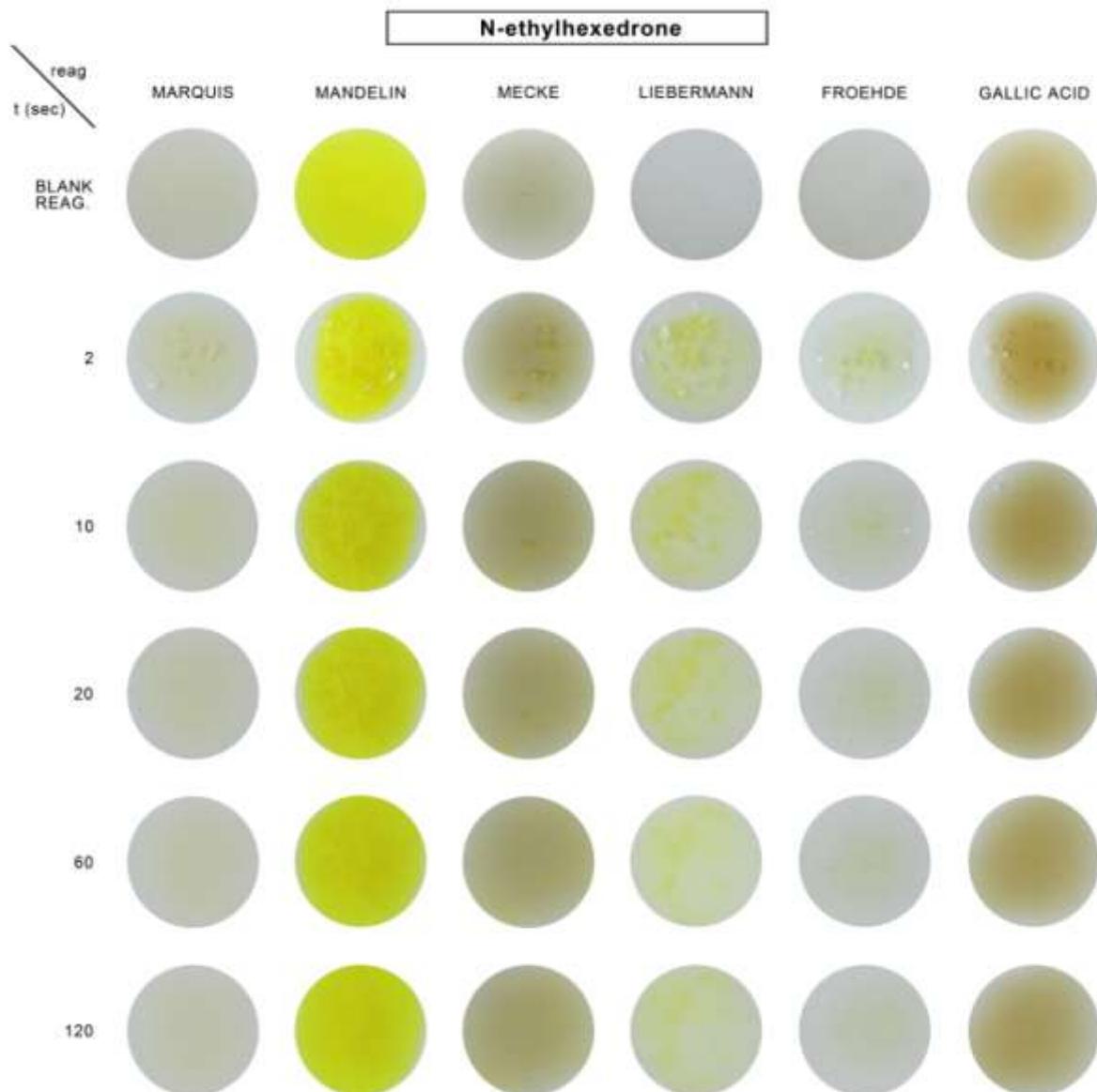
5.29. 4F-PV9



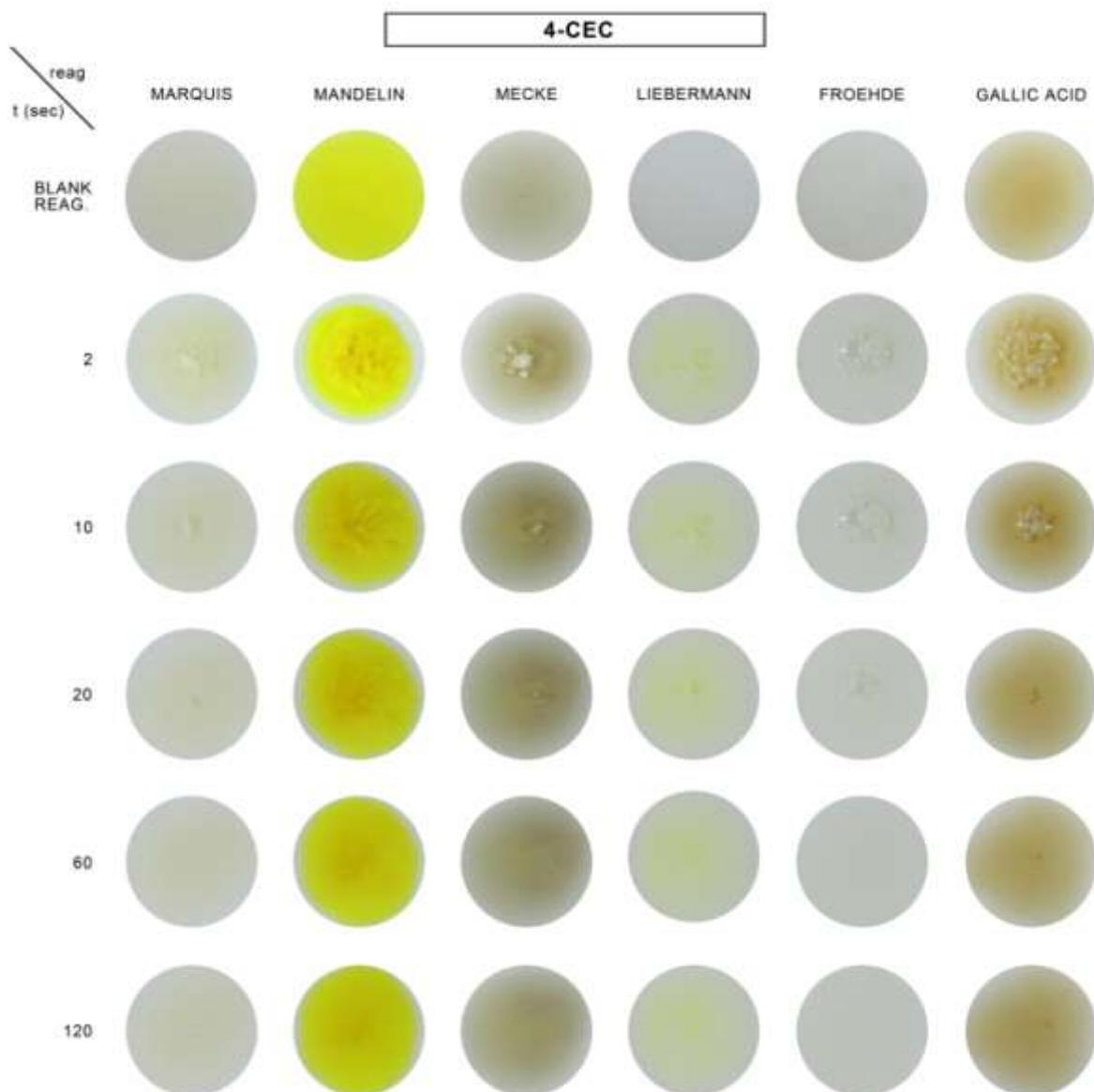
5.30. Mexedrone



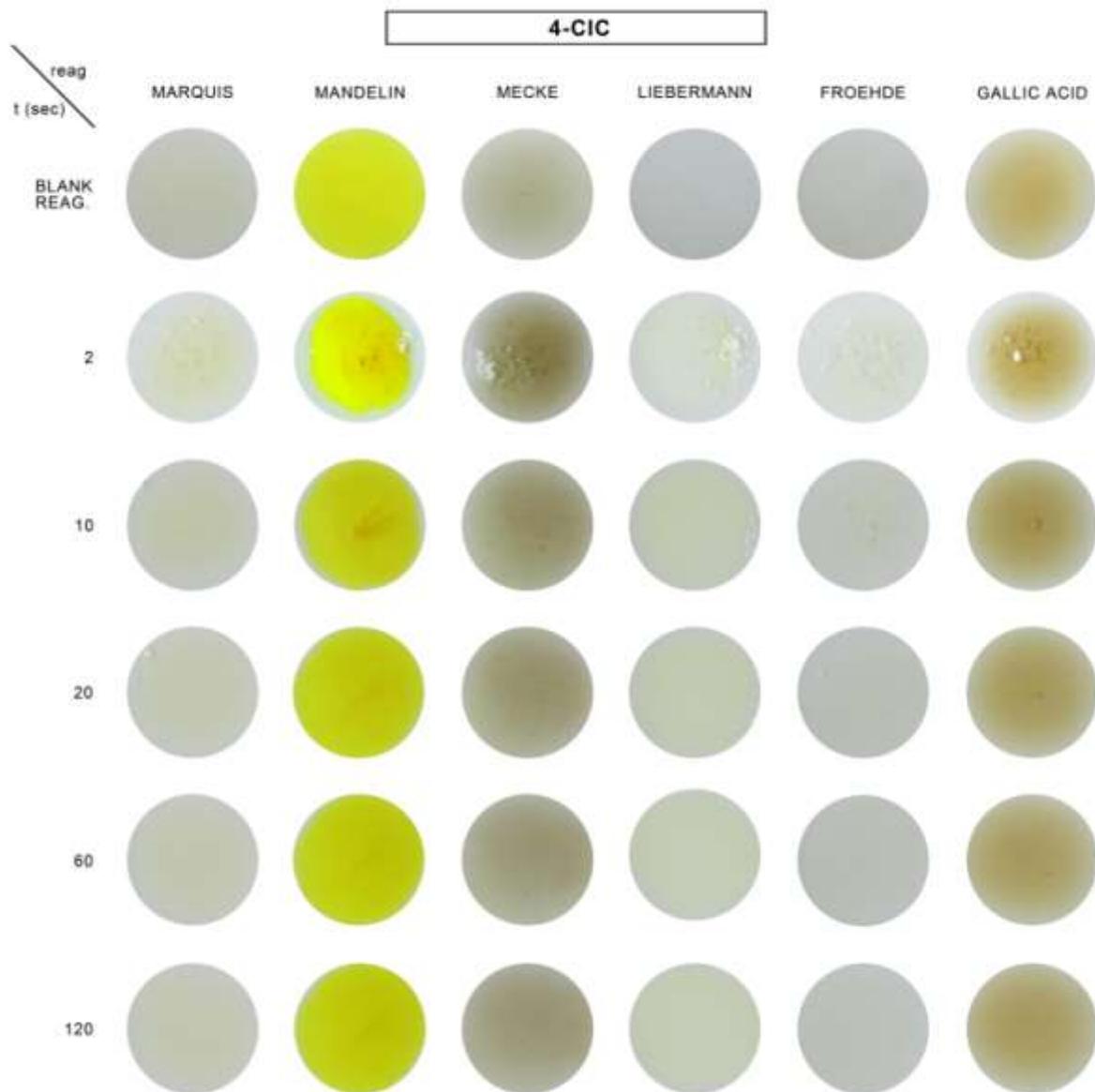
5.31. N-ethylhexedrone



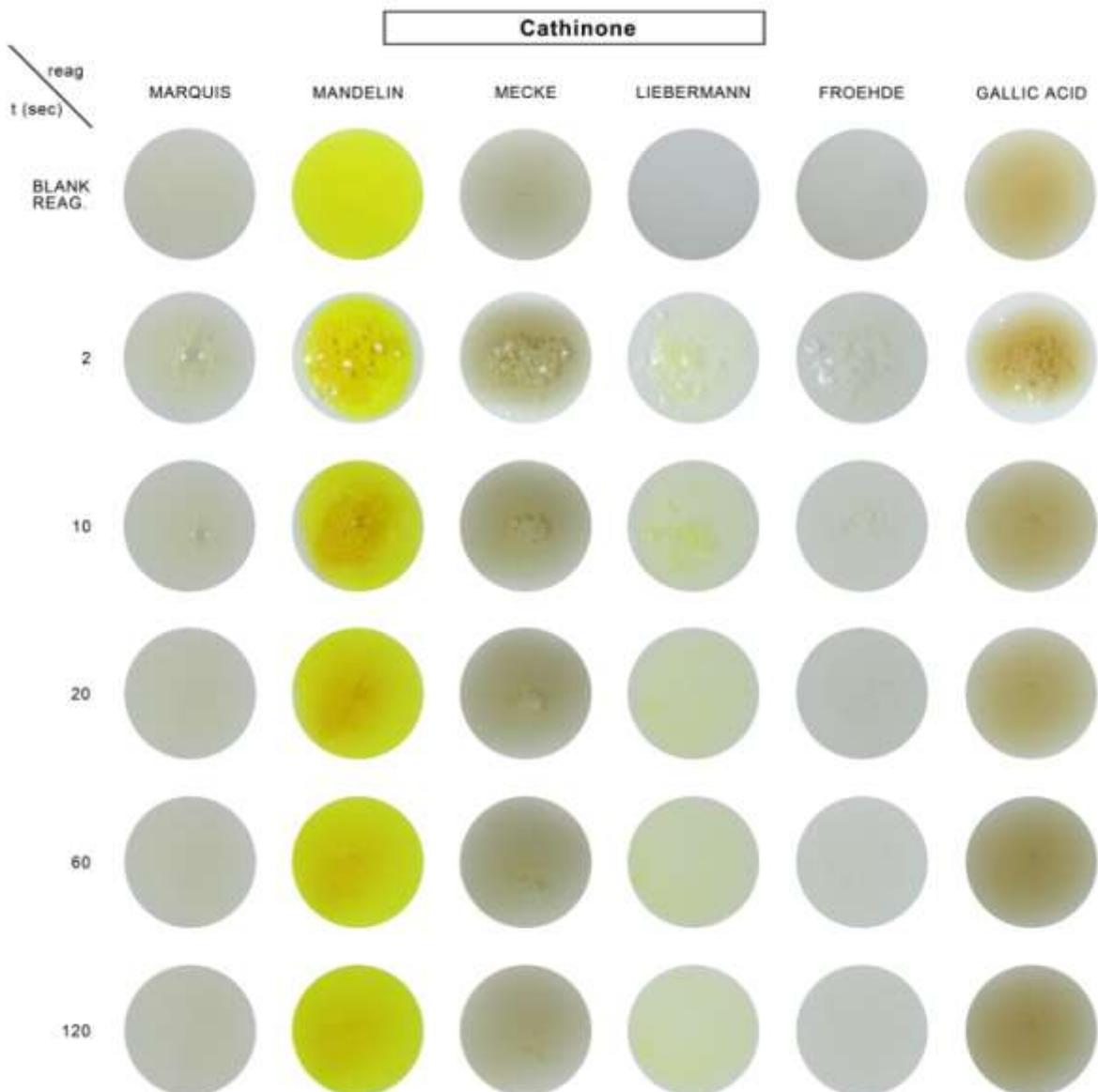
5.32. 4-CEC



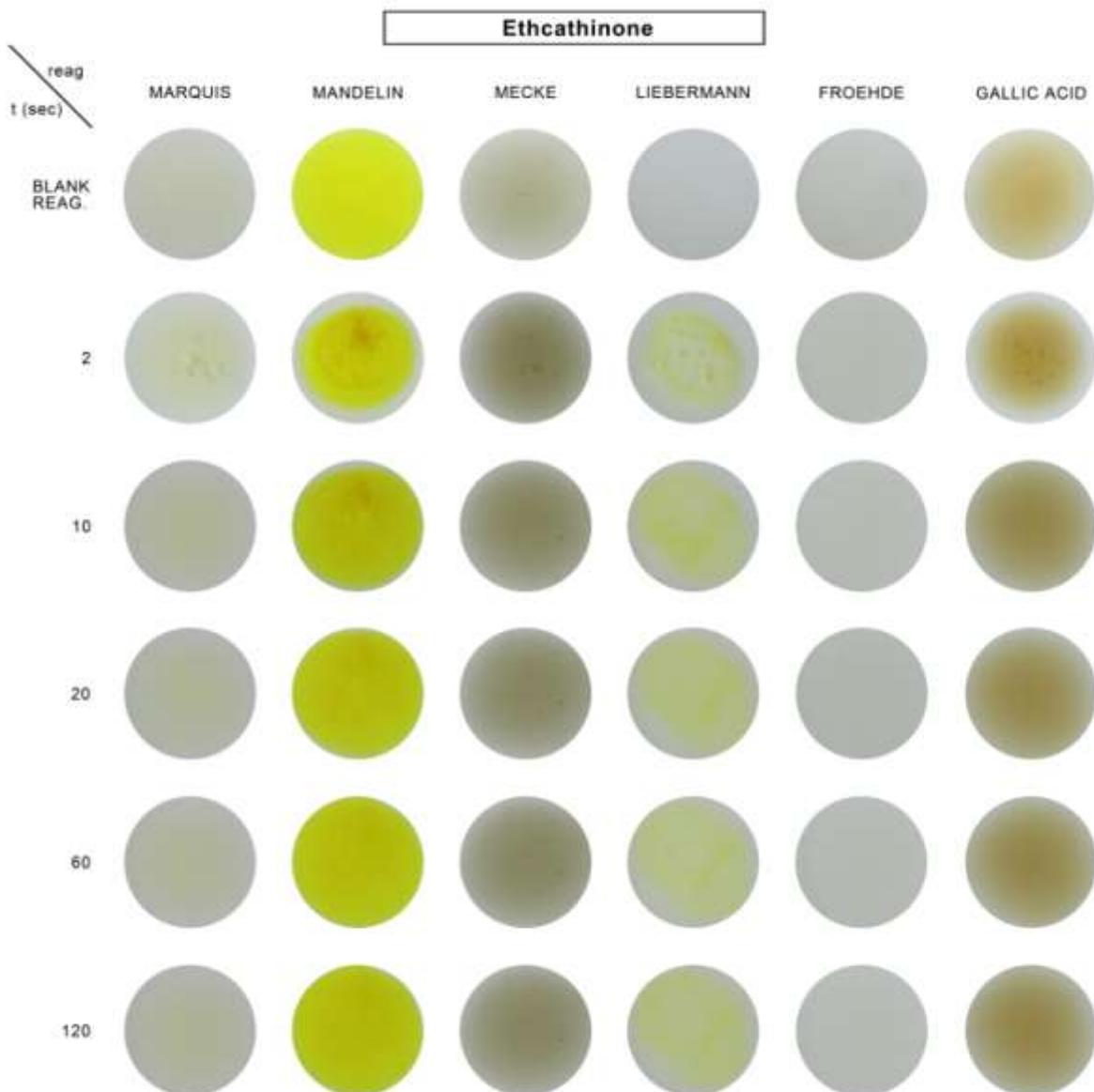
5.33. 4-CIC



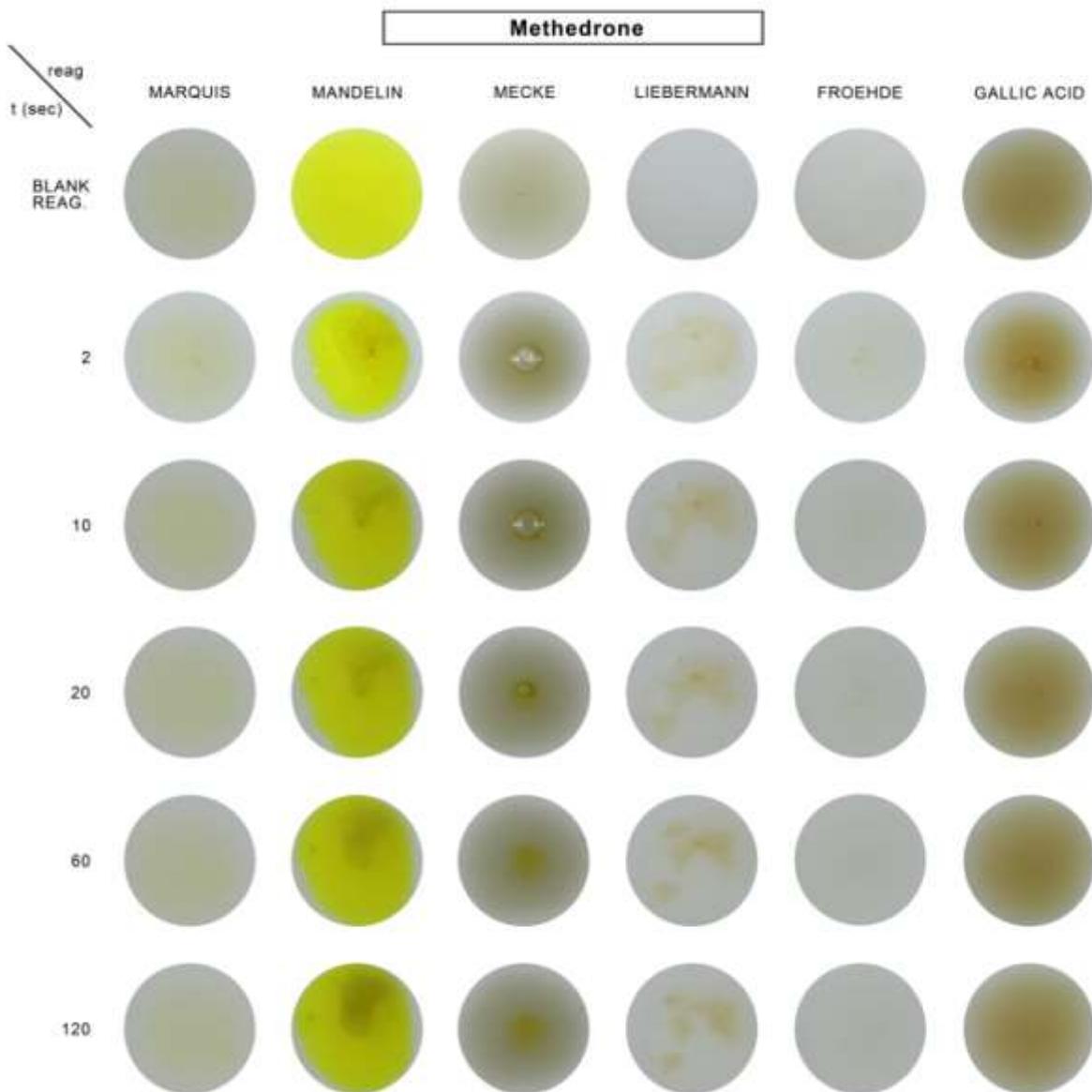
5.34. Cathinone



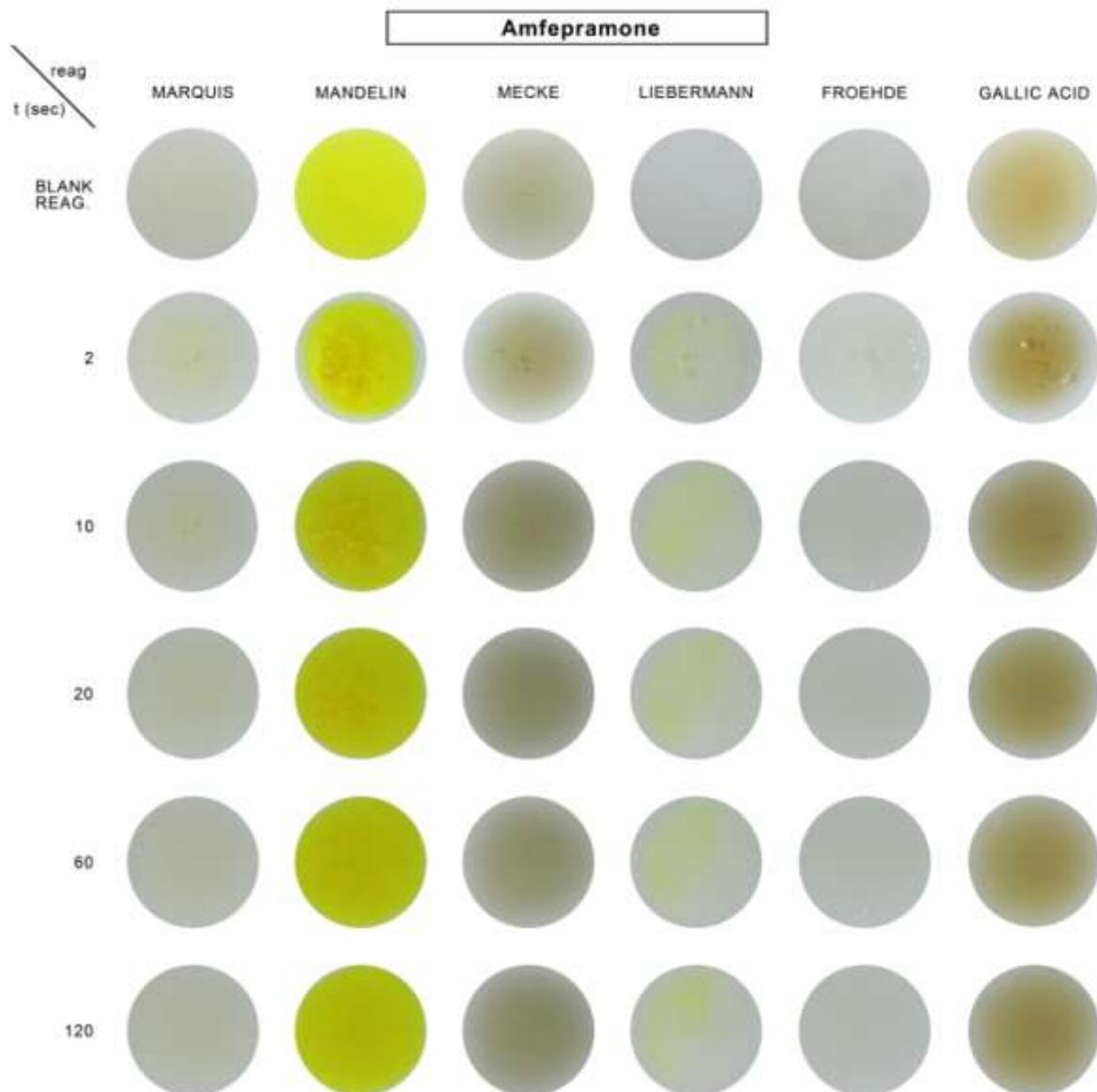
5.35. Ethcathinone



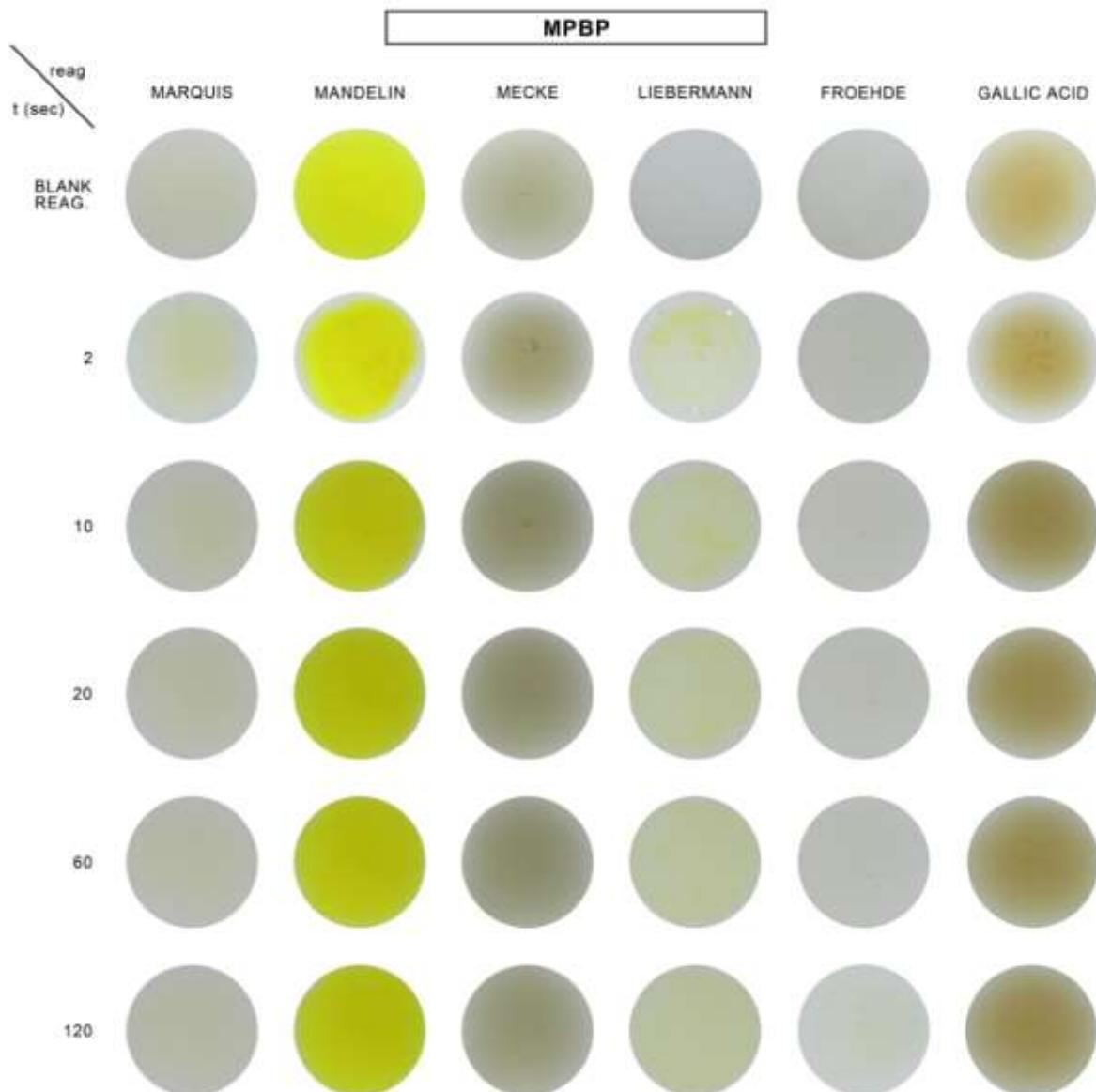
5.36. Methedrone



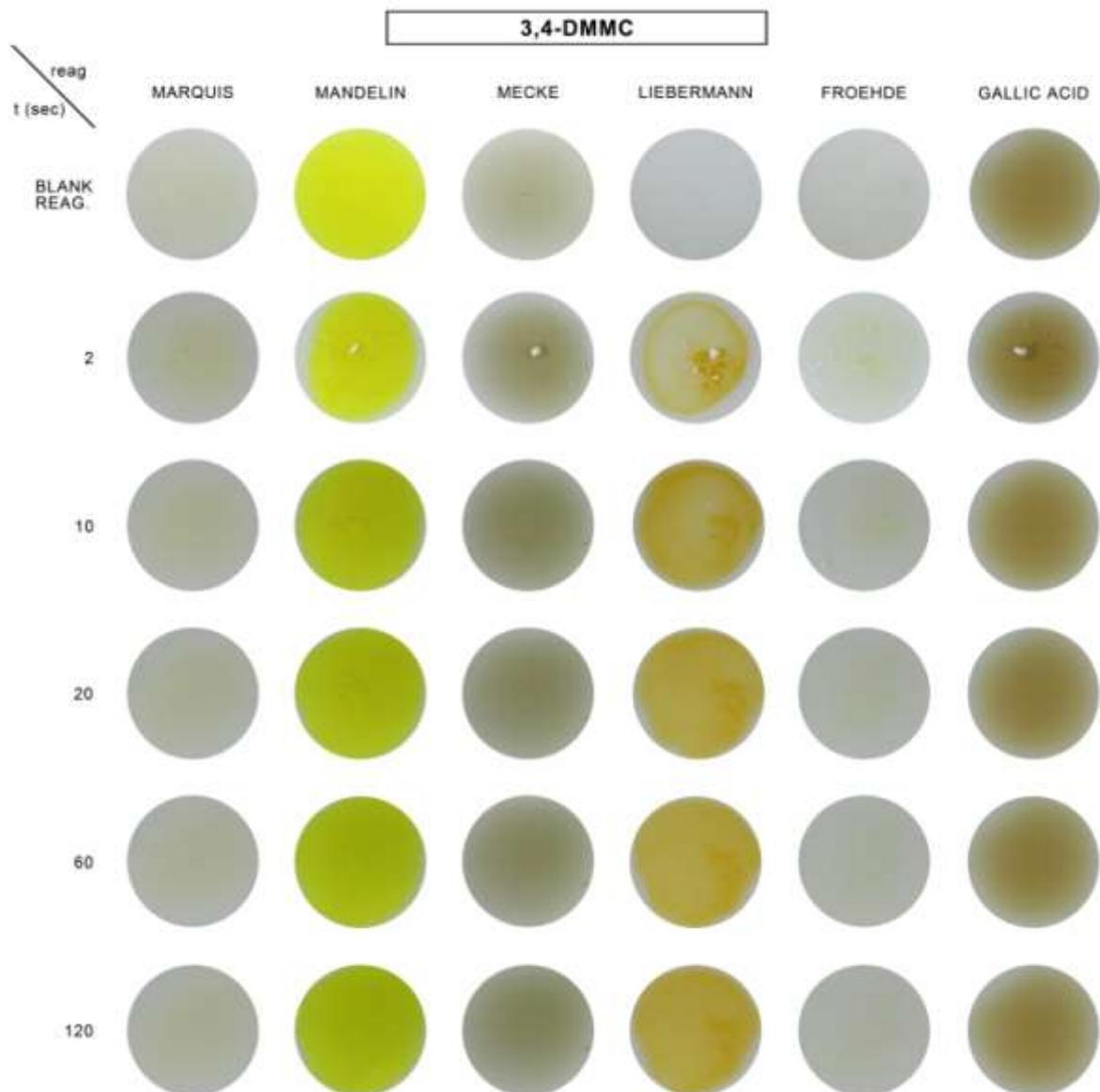
5.37. Amfepramone



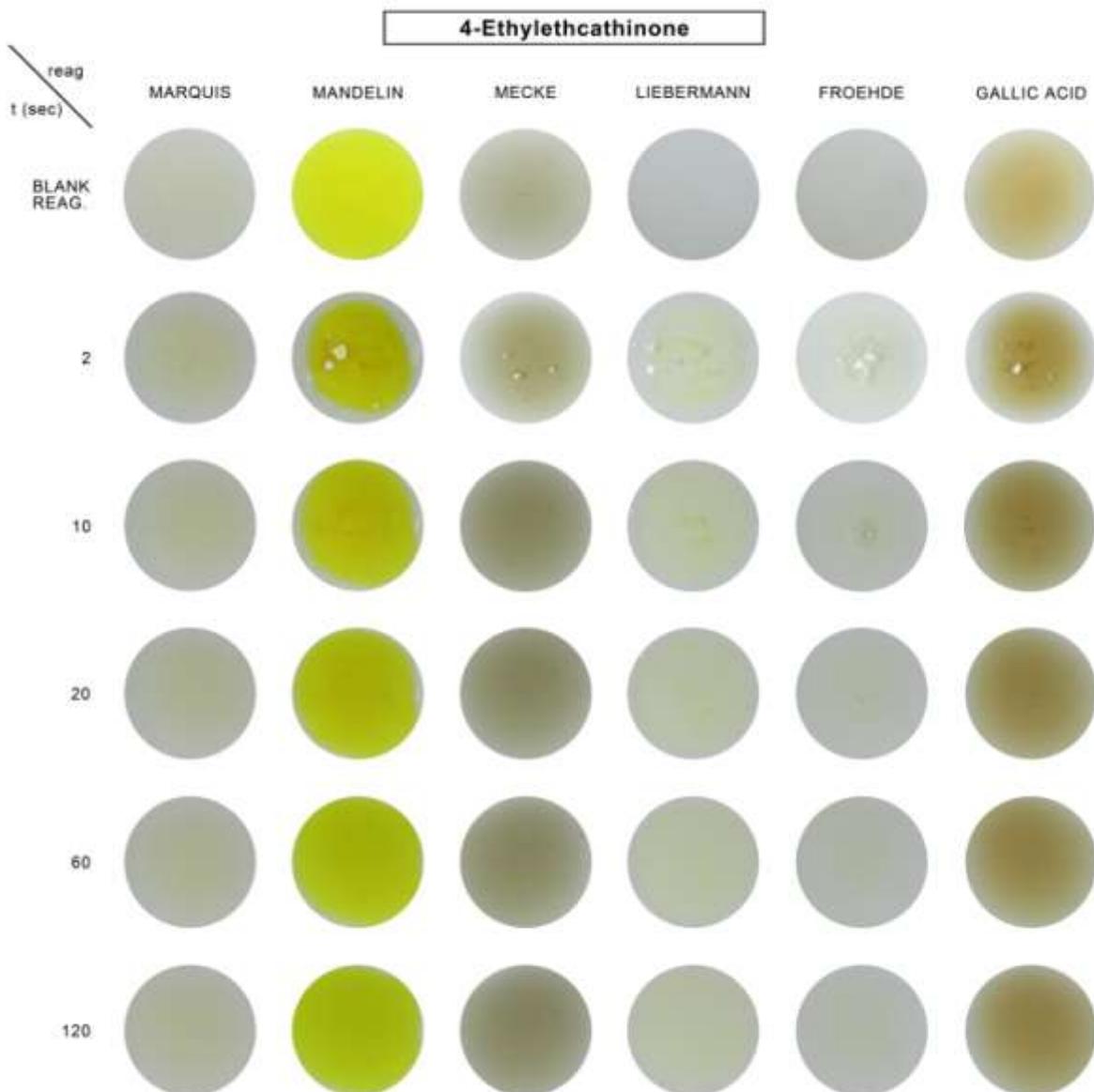
5.38. MPBP



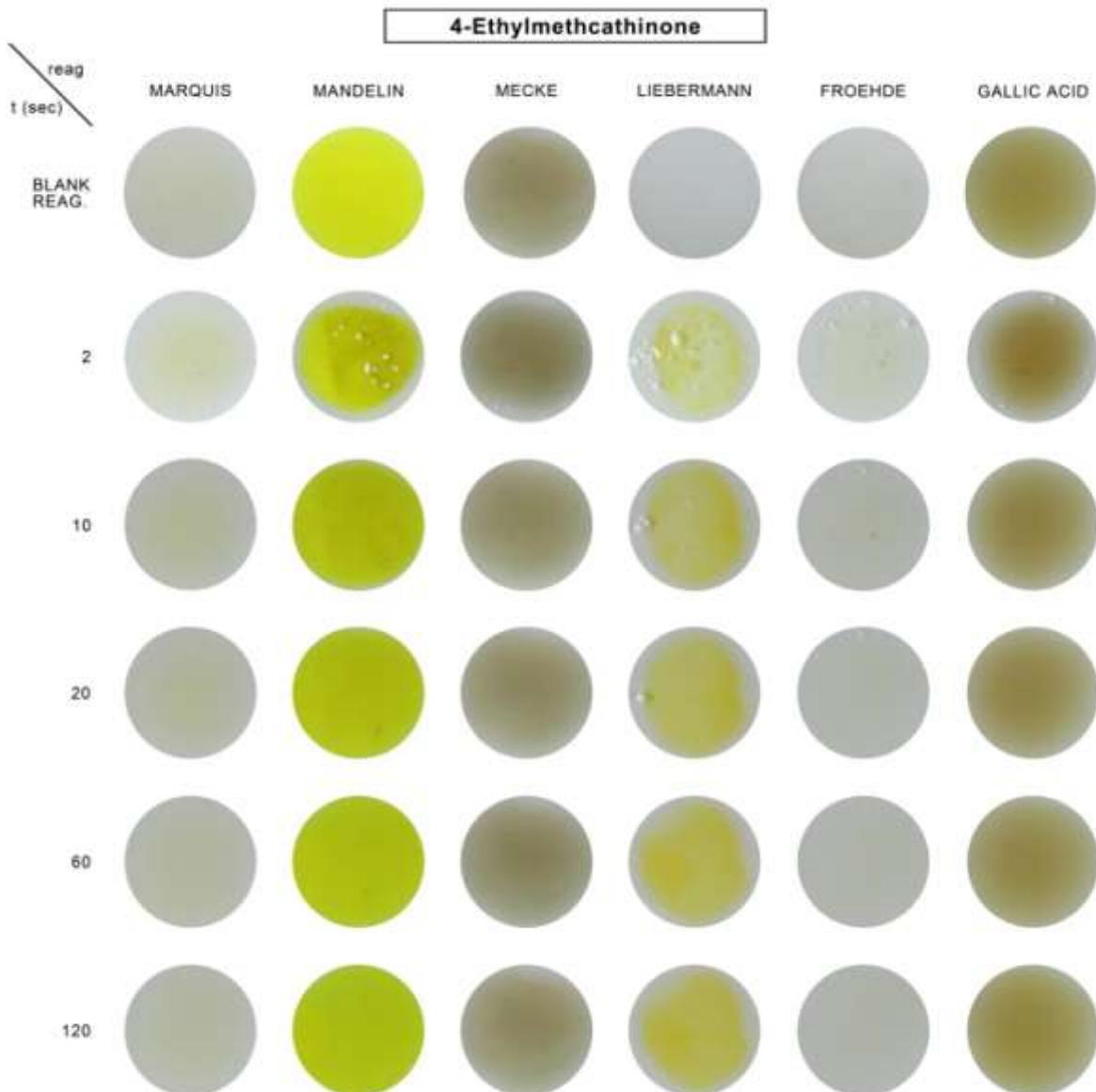
5.39. 3,4-DMMC



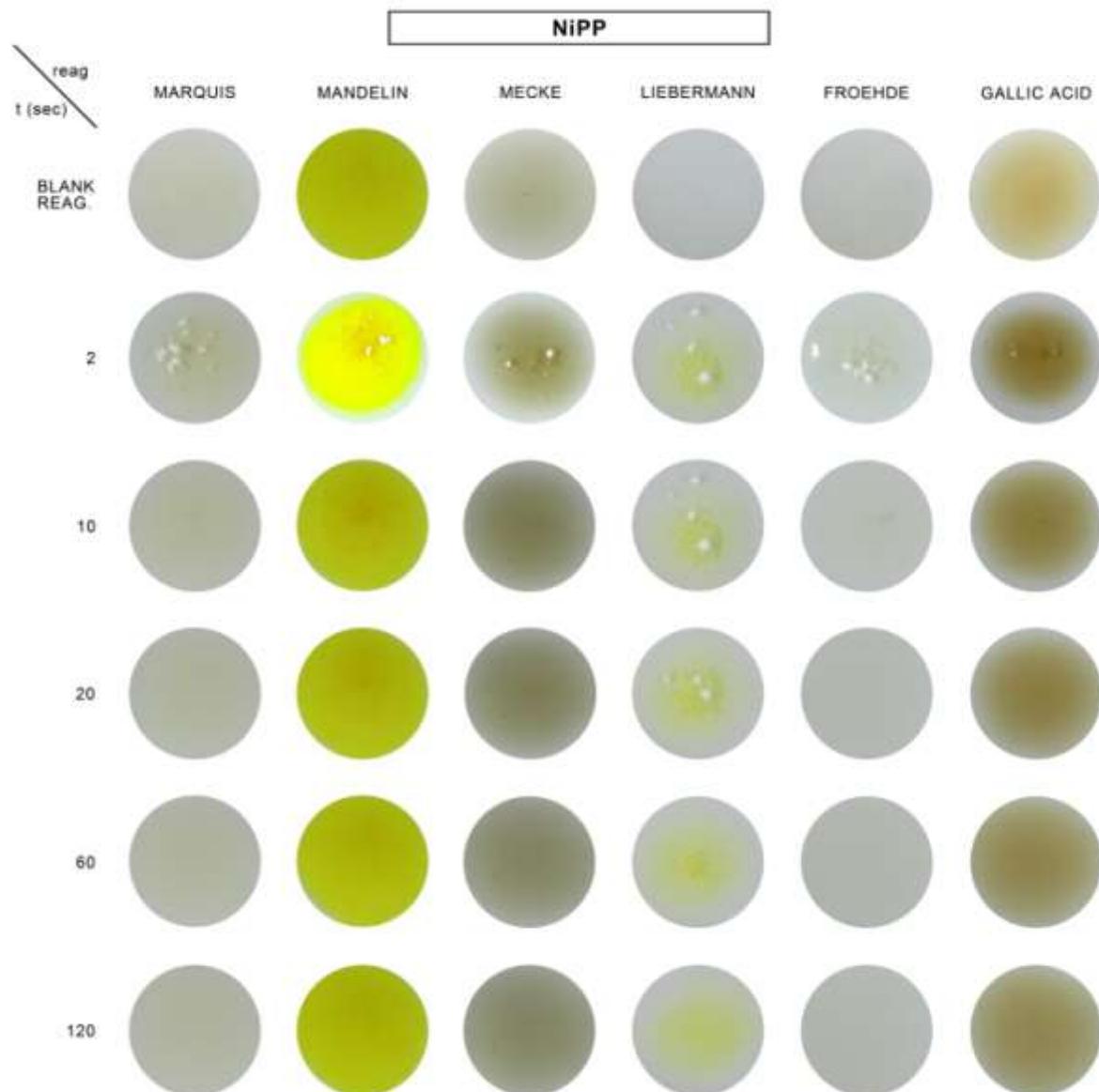
5.40. 4-Ethylethcathinone



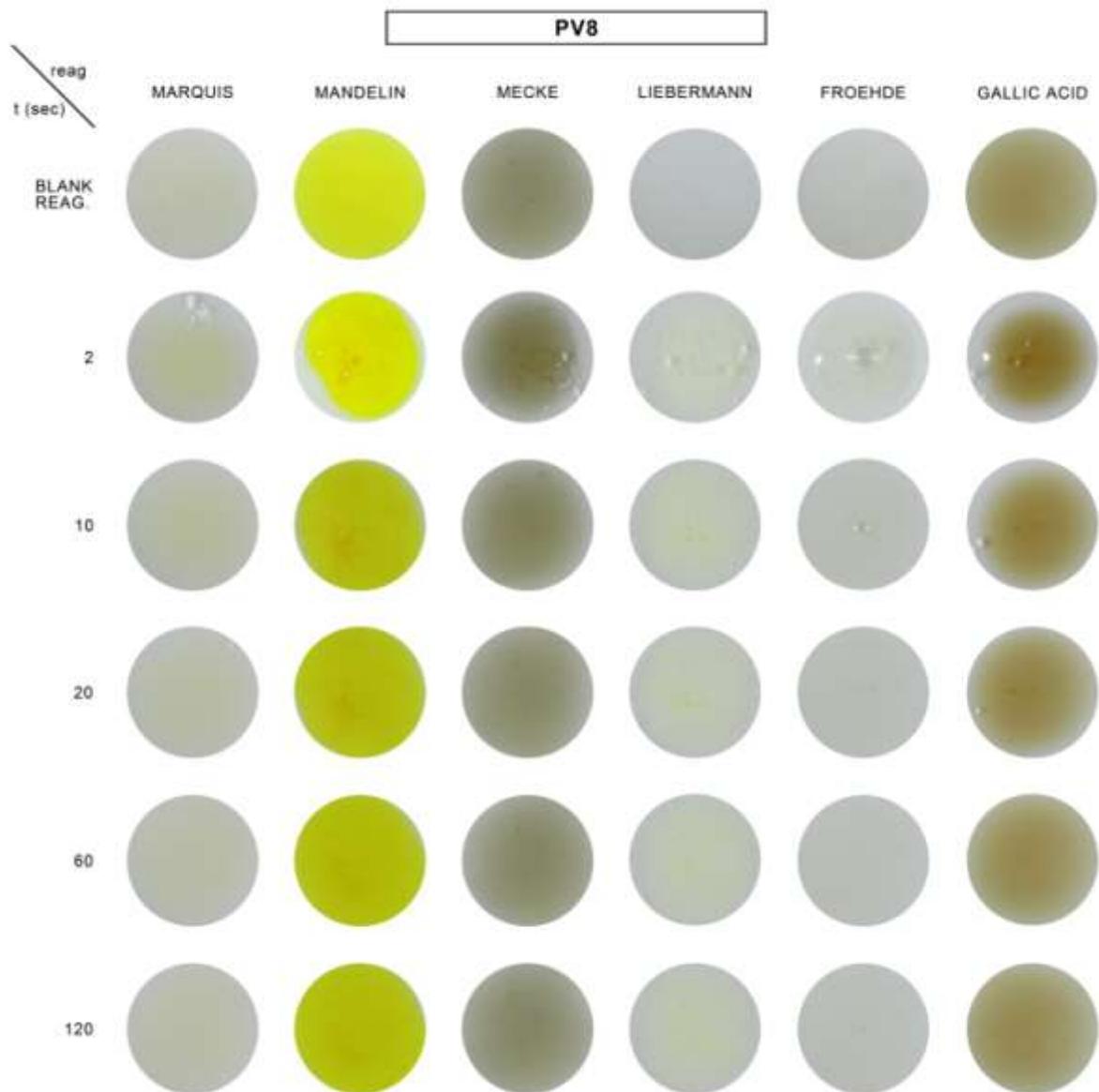
5.41. 4-Ethylmethcathinone



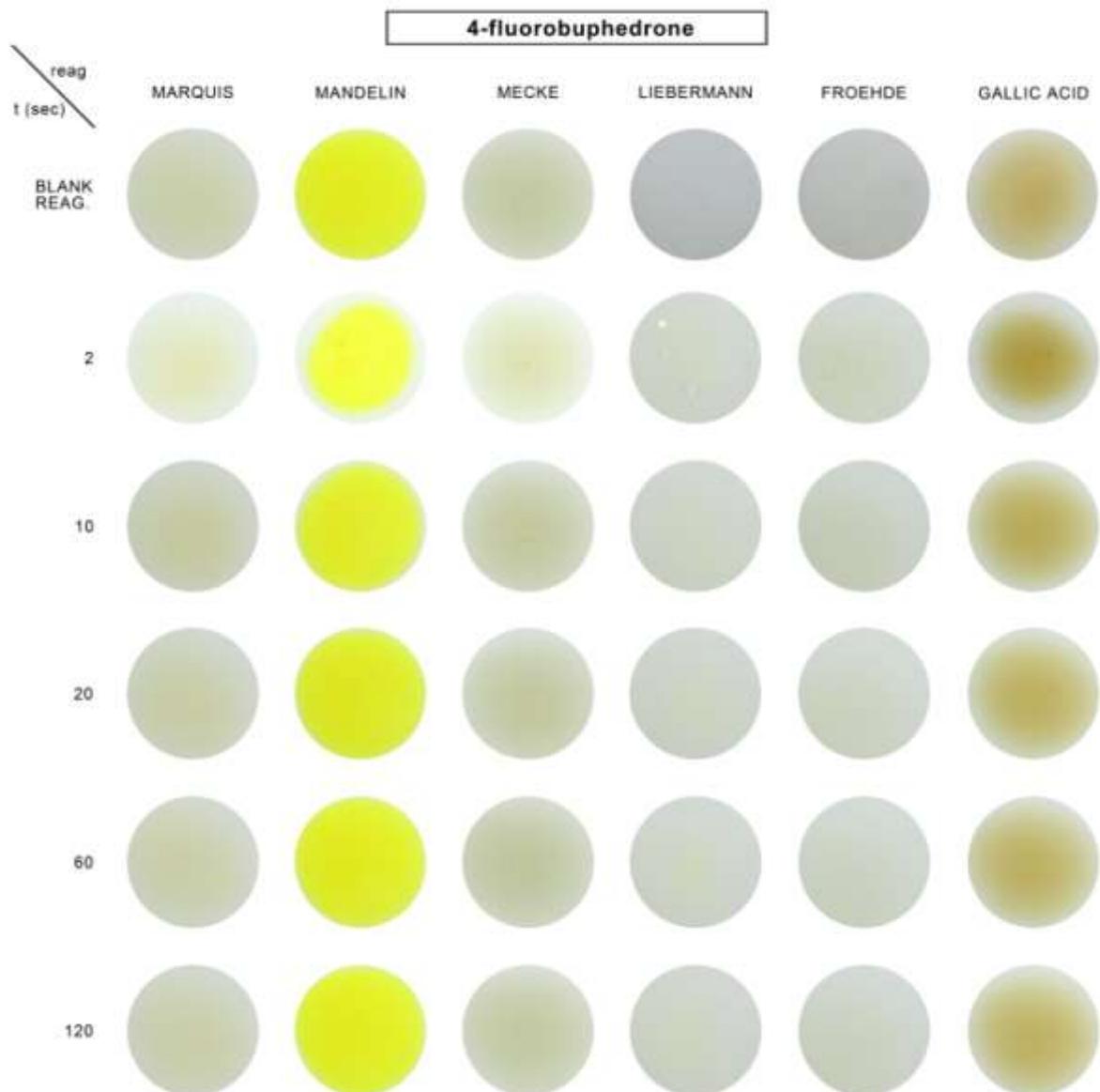
5.42. NiPP



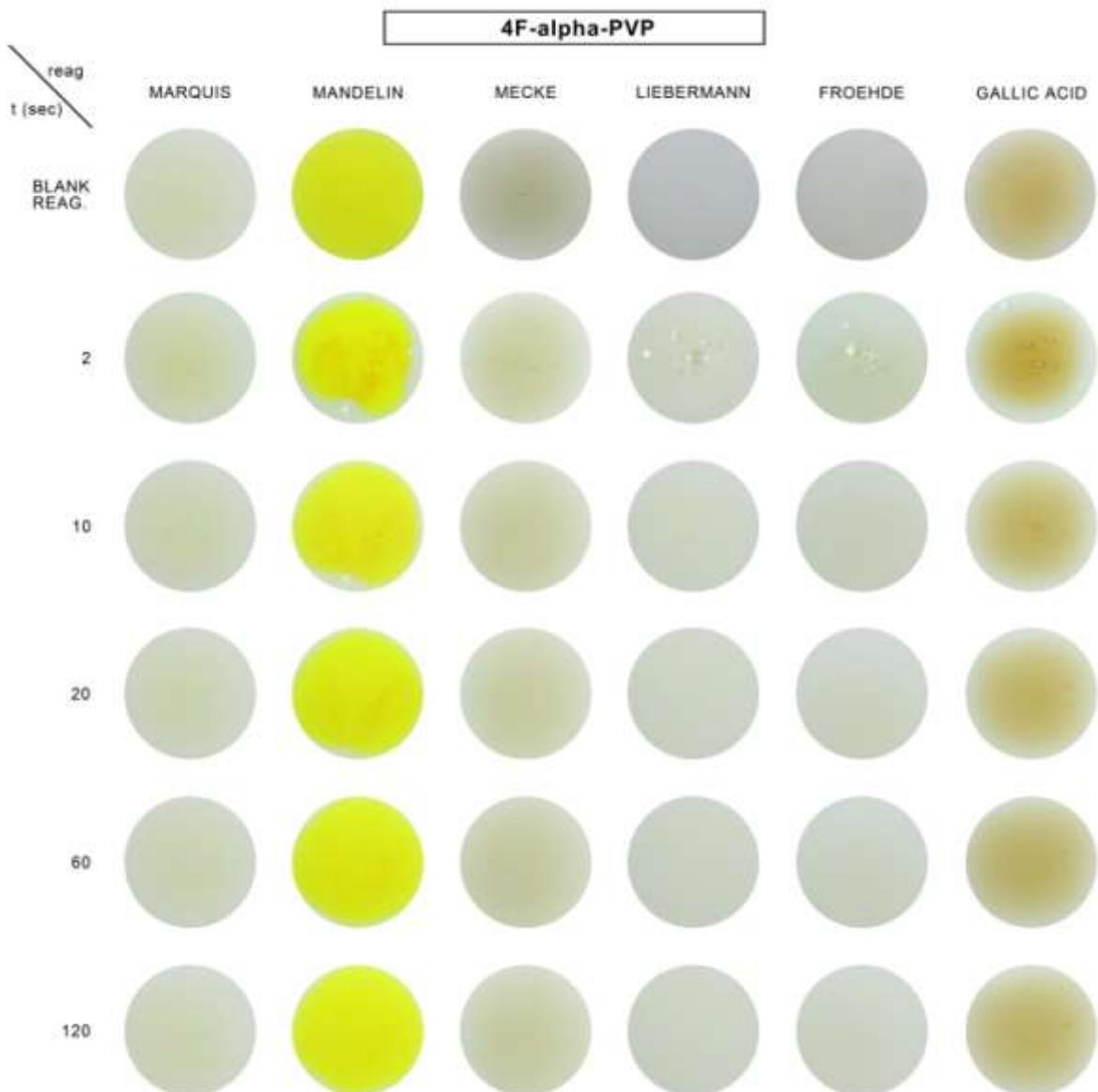
5.43. PV8



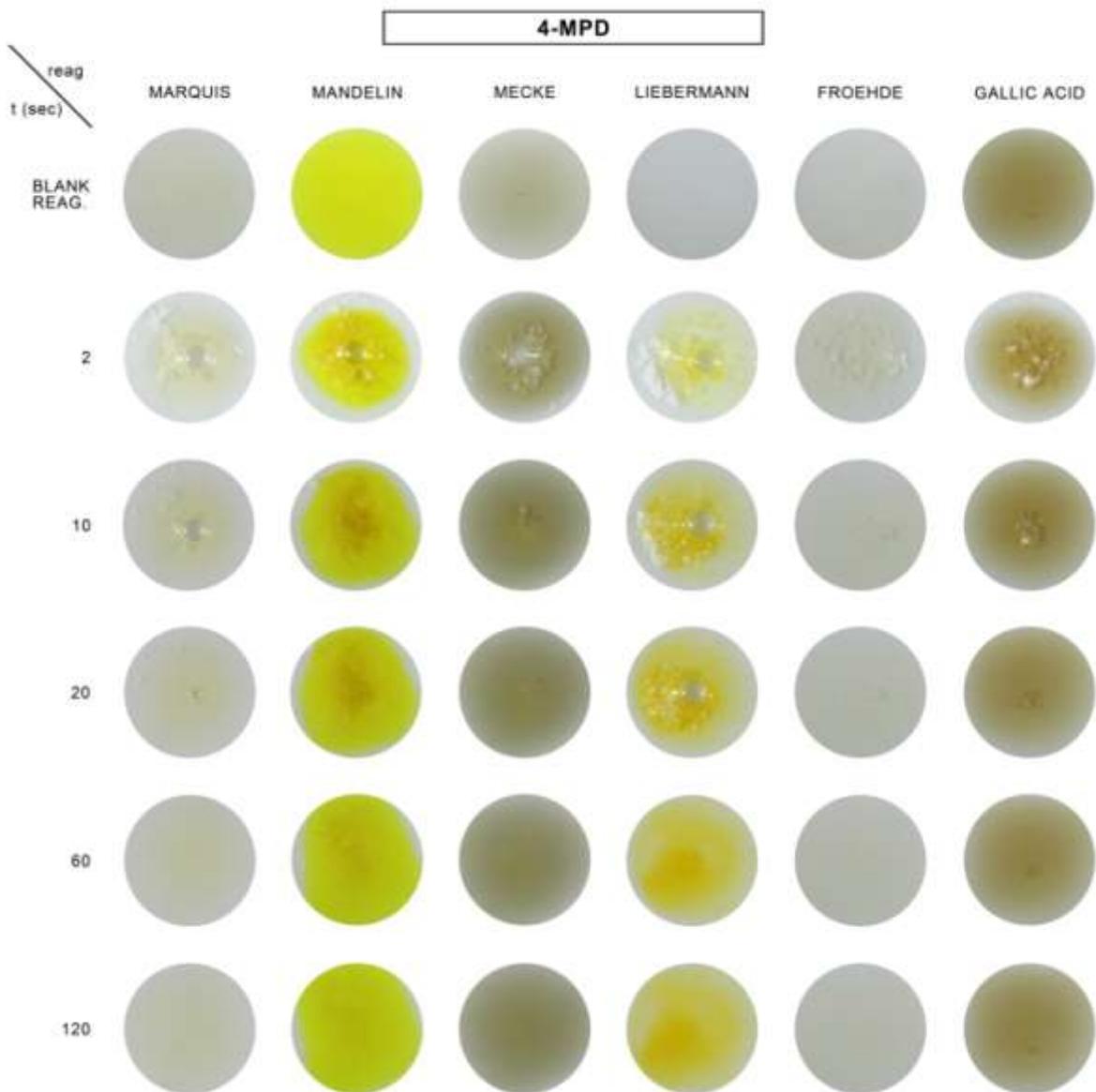
5.44. 4-fluorobuphedrone



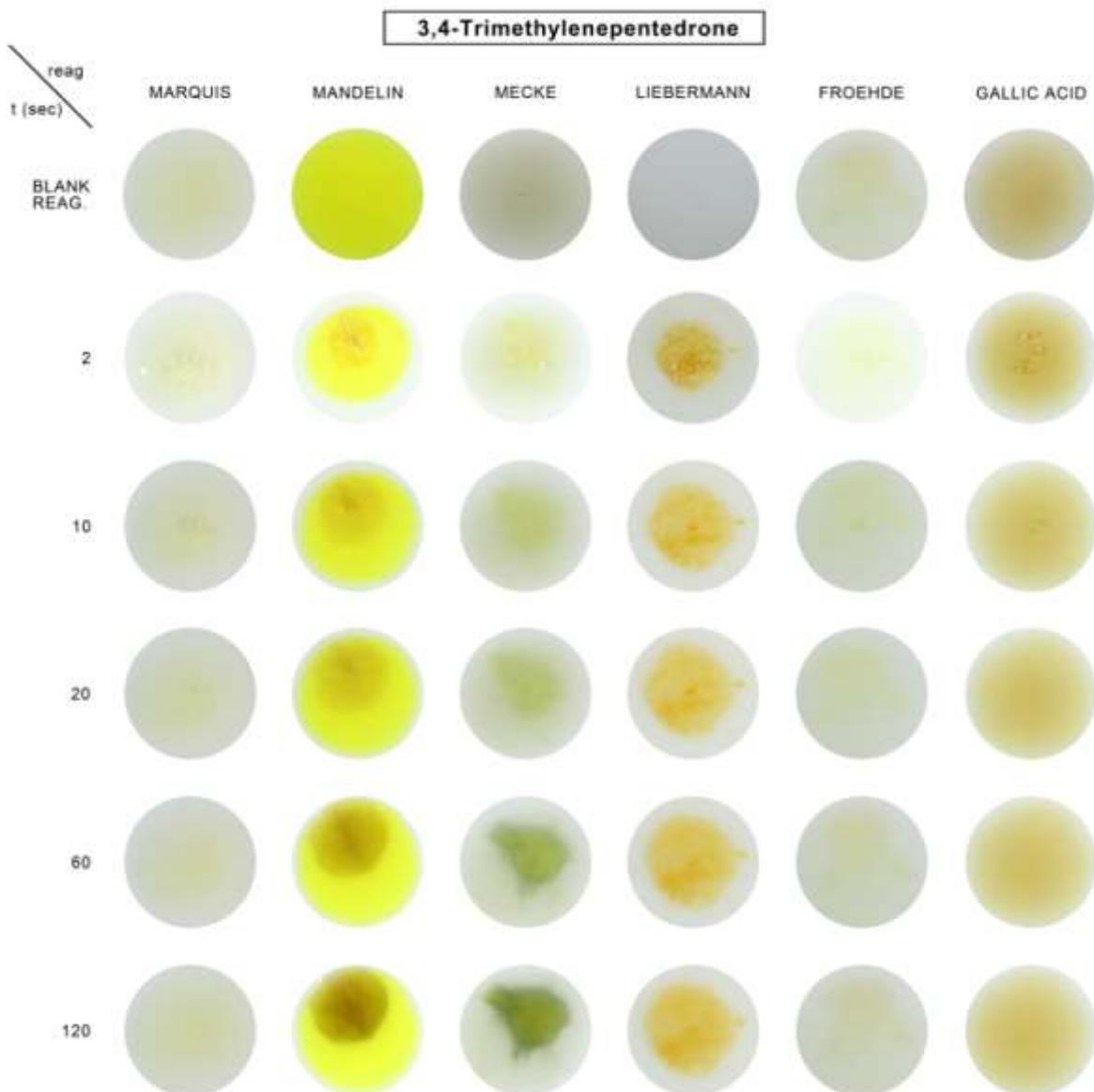
5.45. 4F- α -PVP



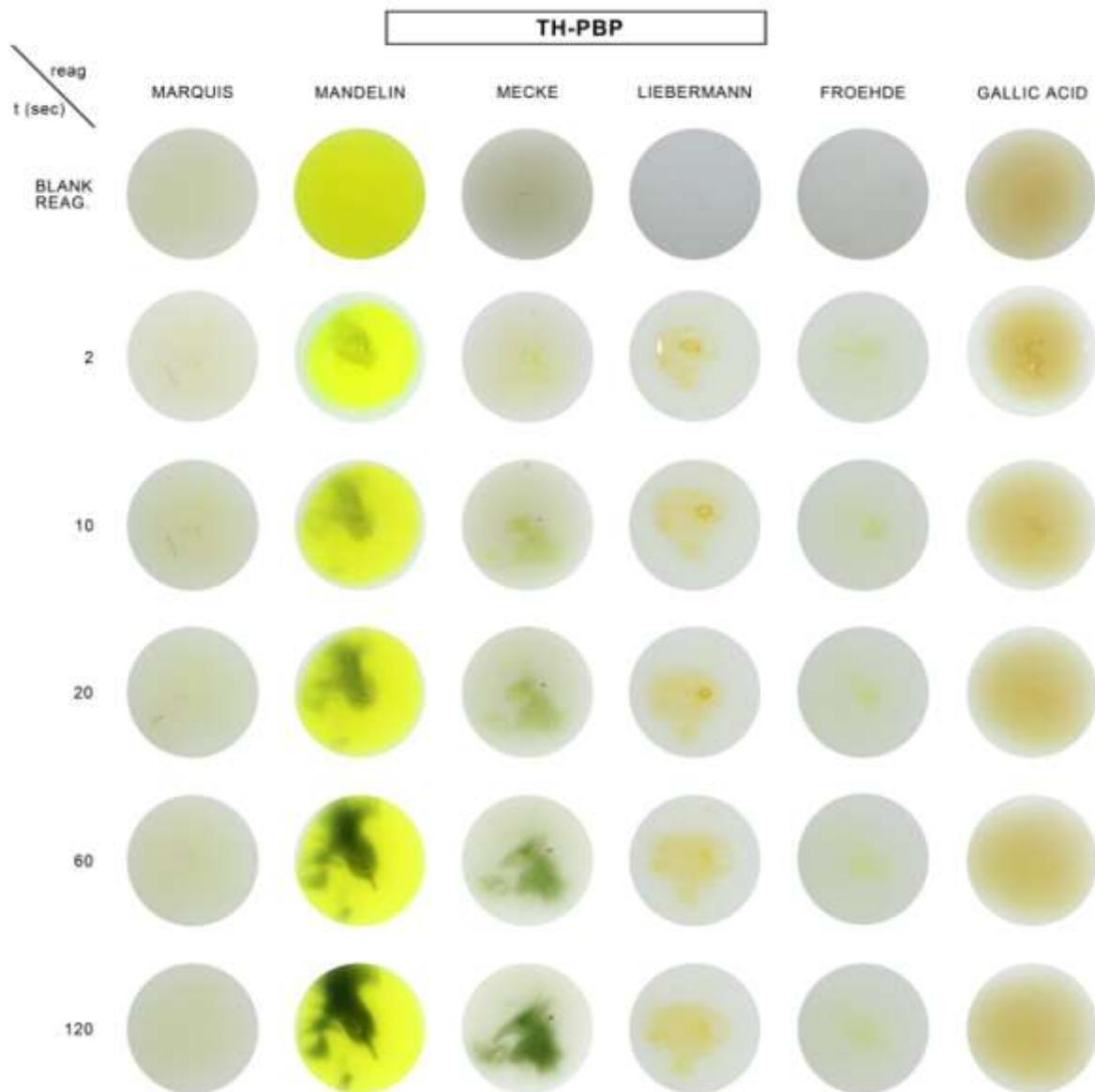
5.46. 4-MPD



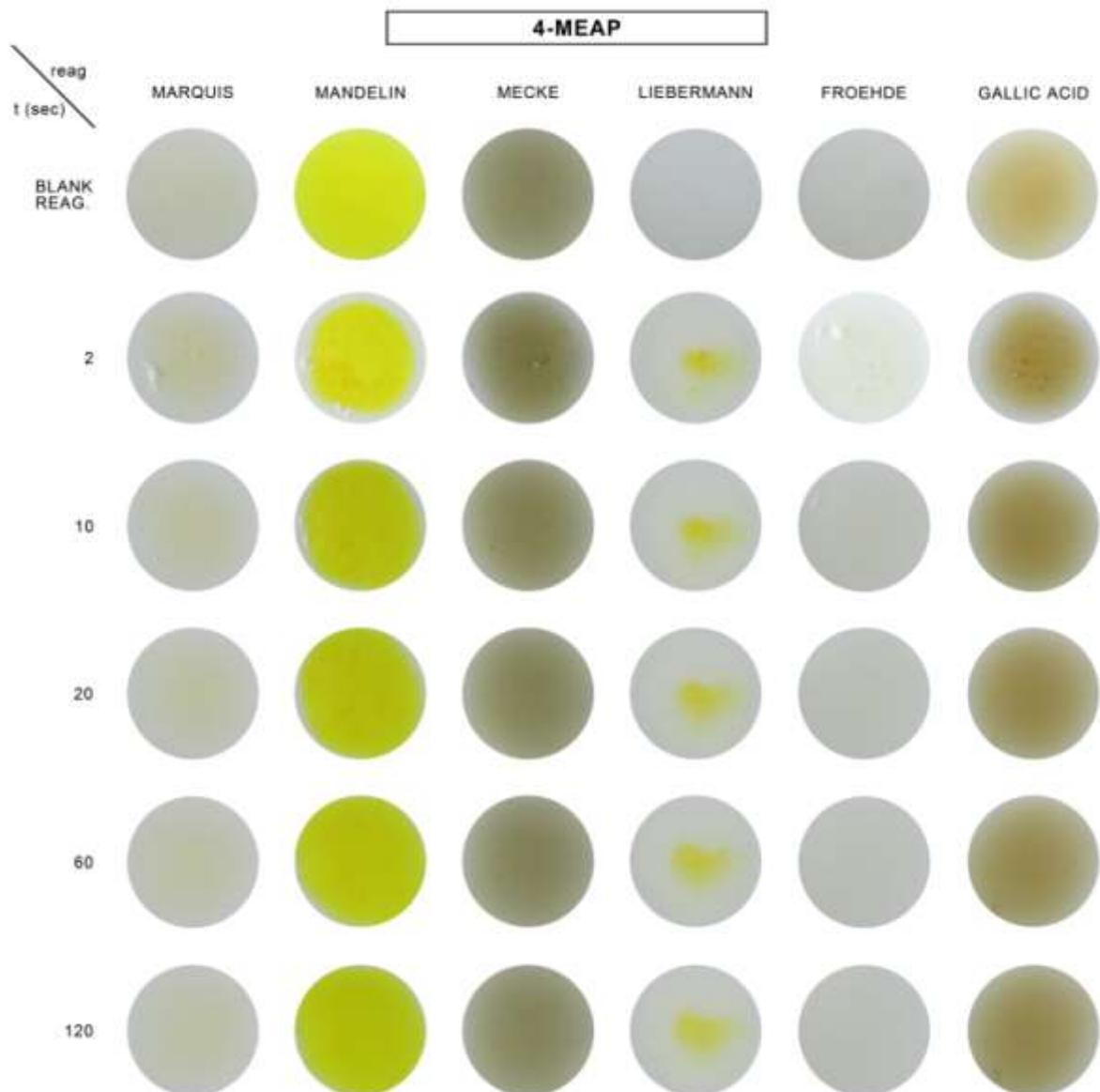
5.47. 3,4-Trimethylenepentedrone



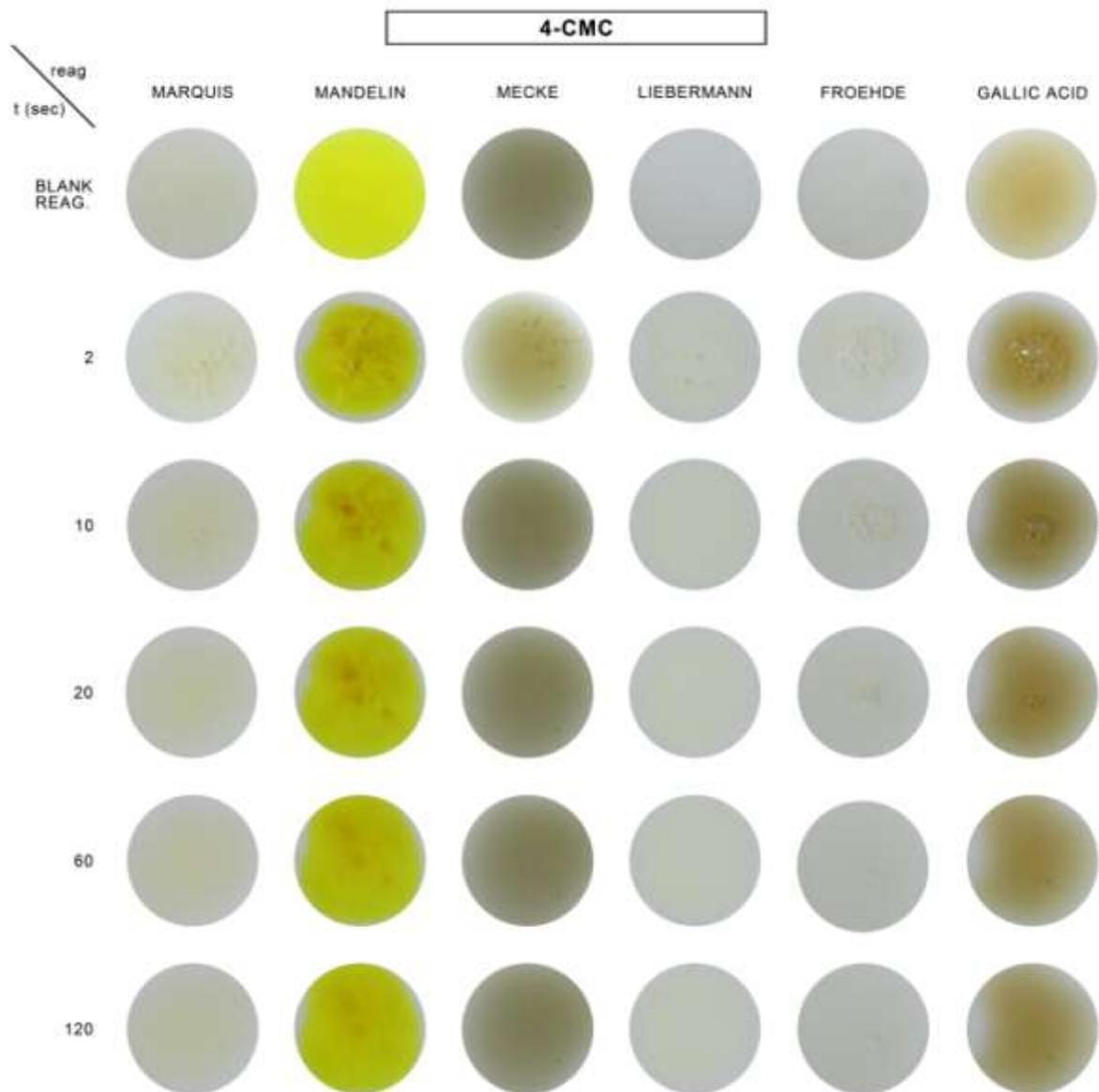
5.48. TH-PBP



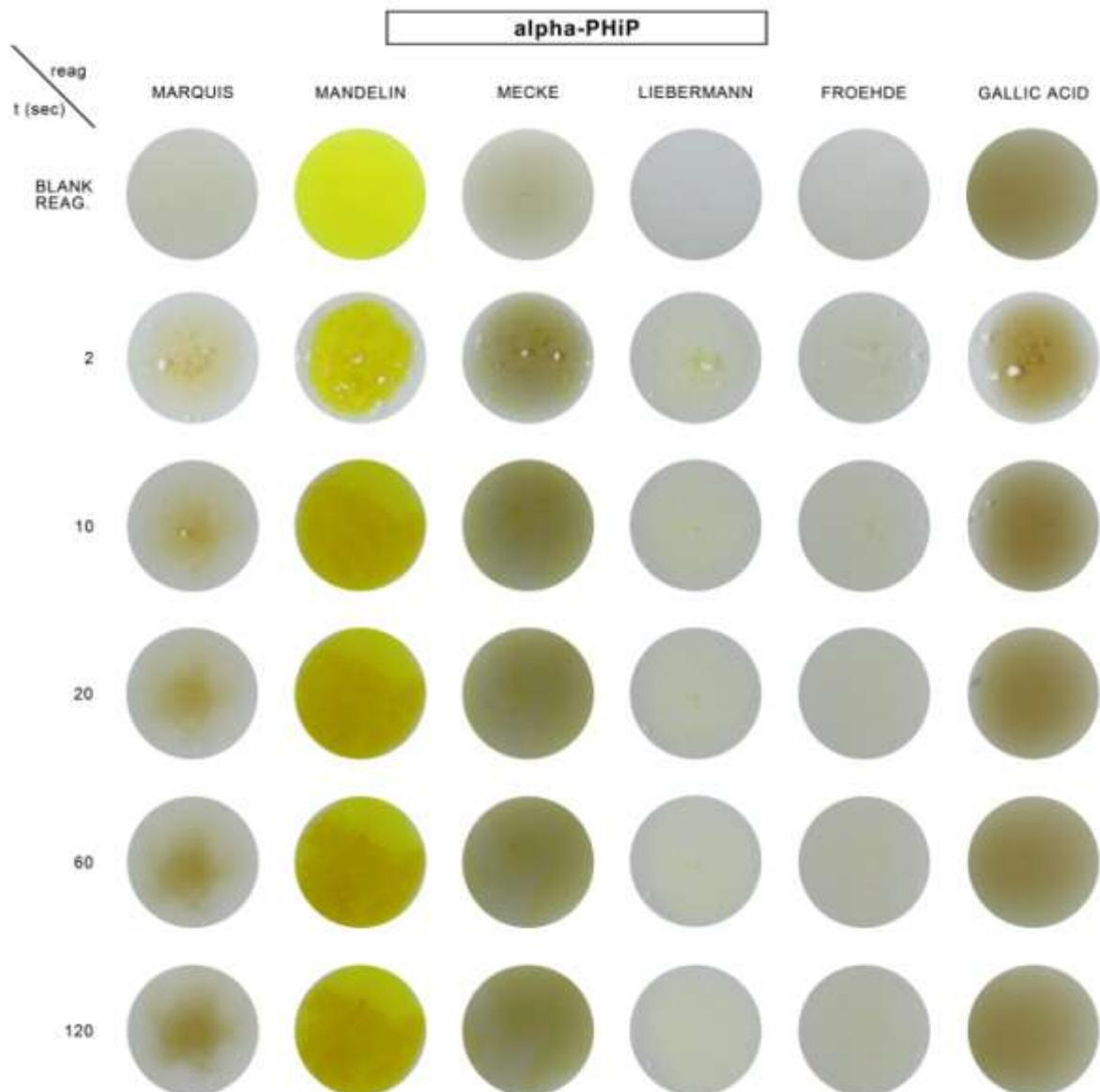
5.49. 4-MEAP



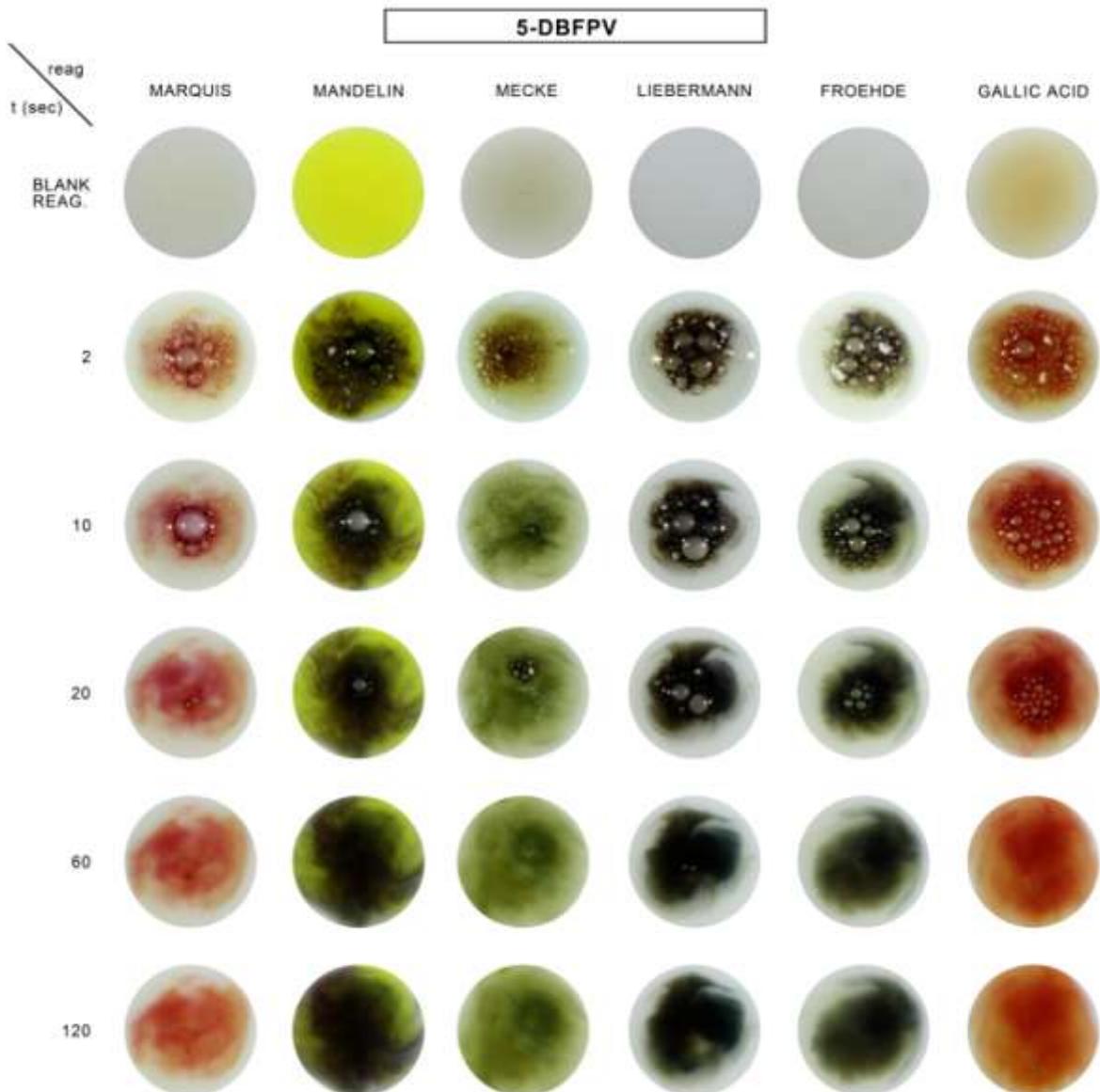
5.50. 4-CMC



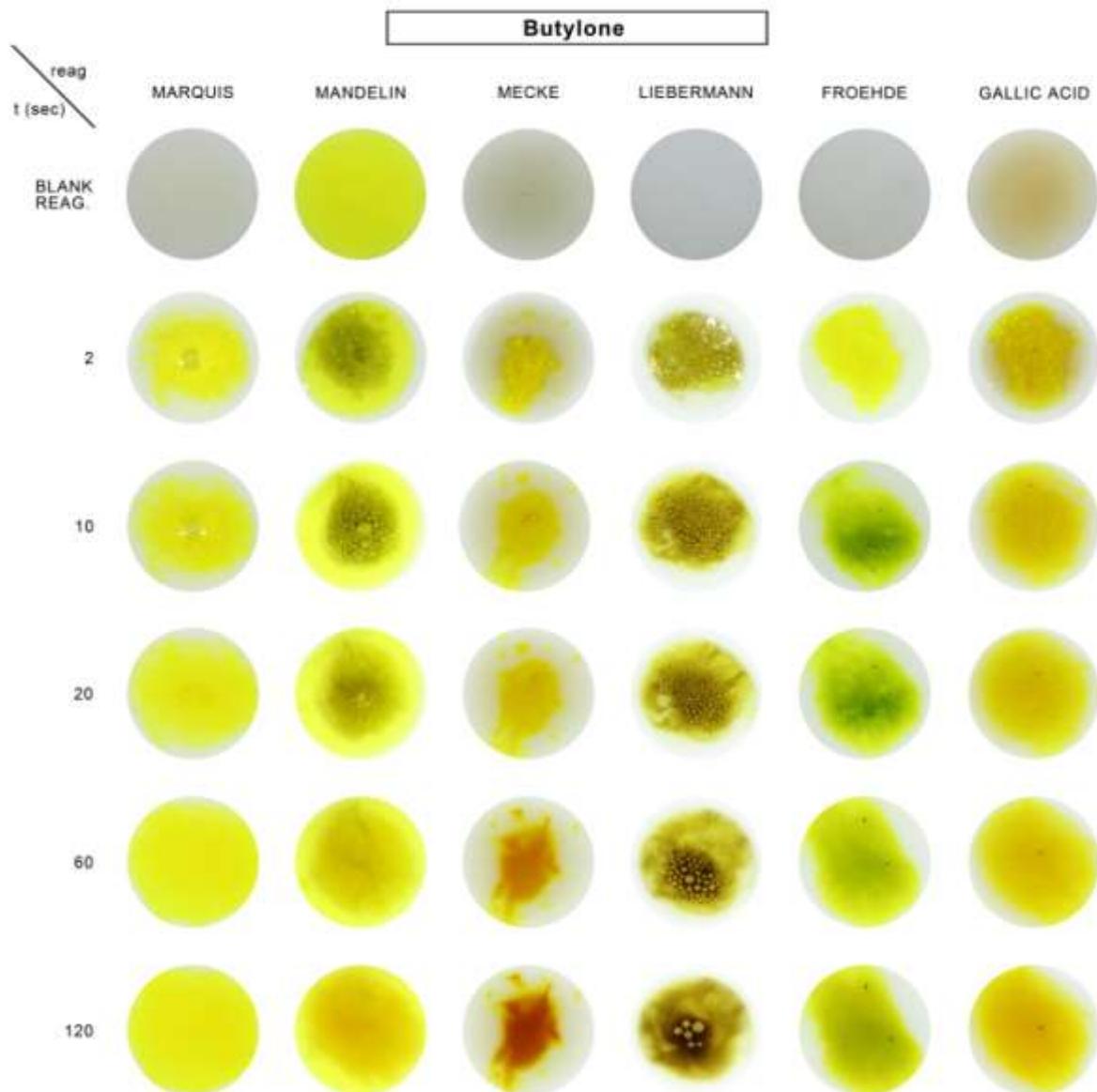
5.51. alpha-PHiP



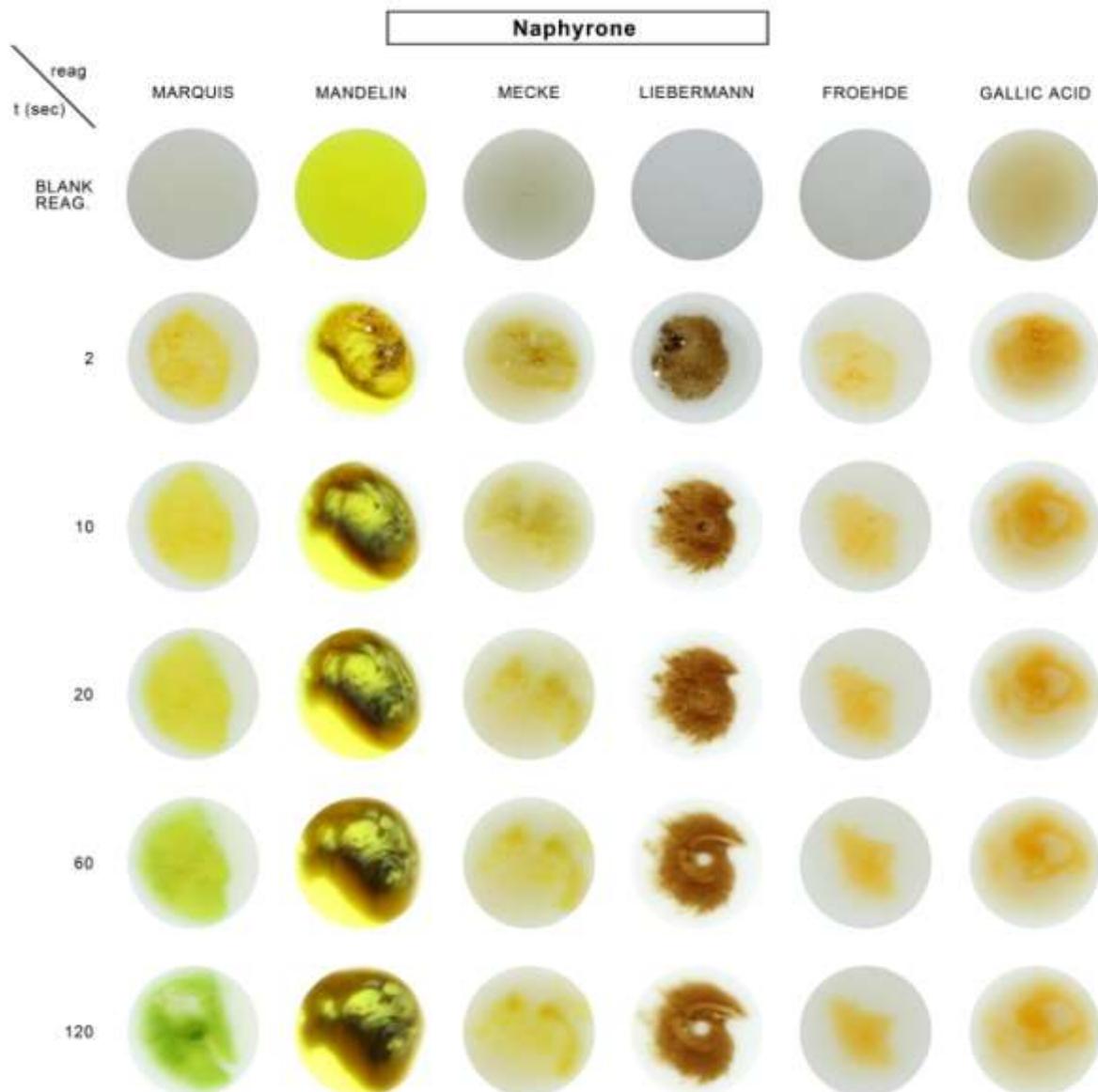
5.52. 5-DBFPV



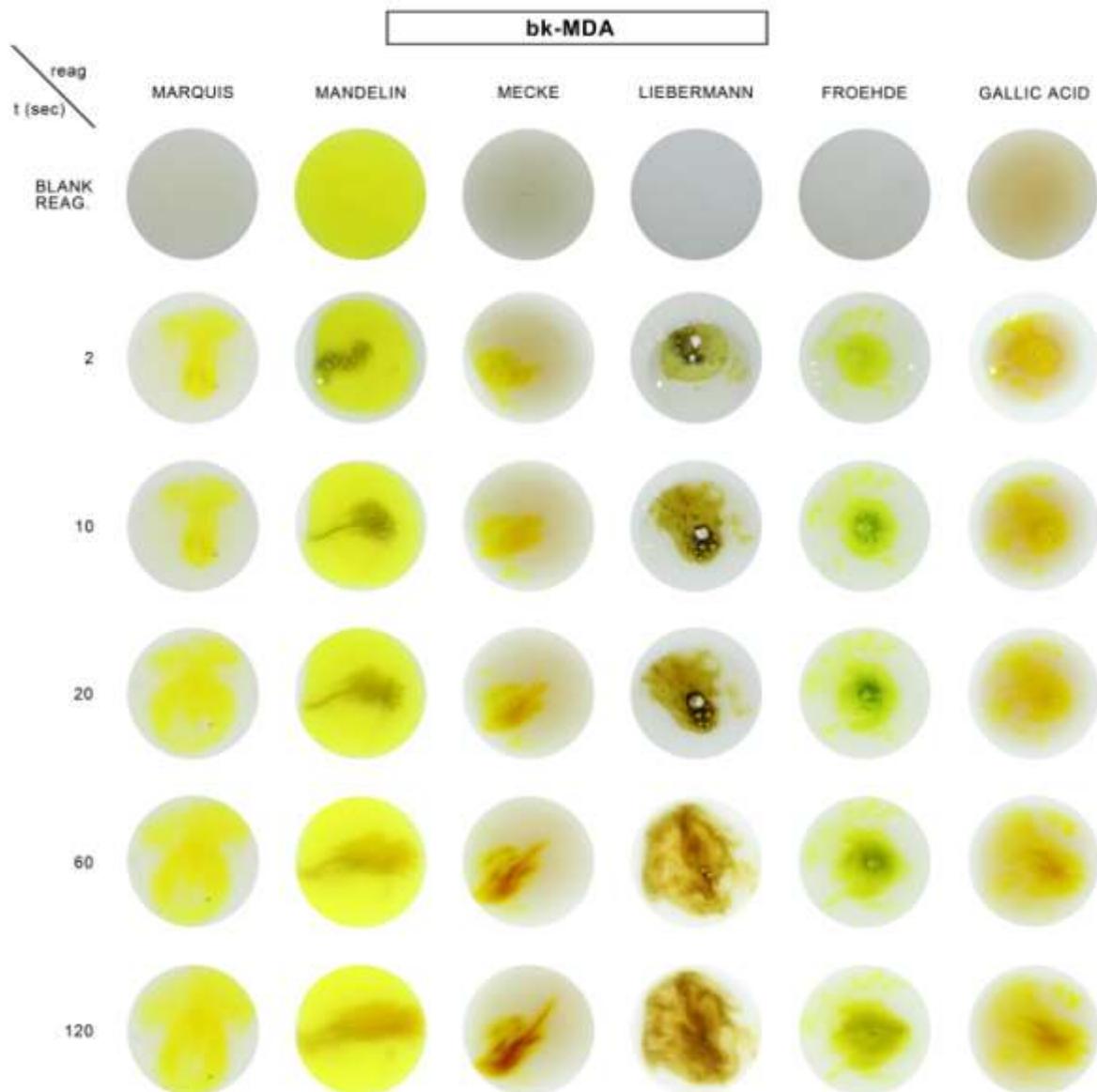
5.53. Butylone



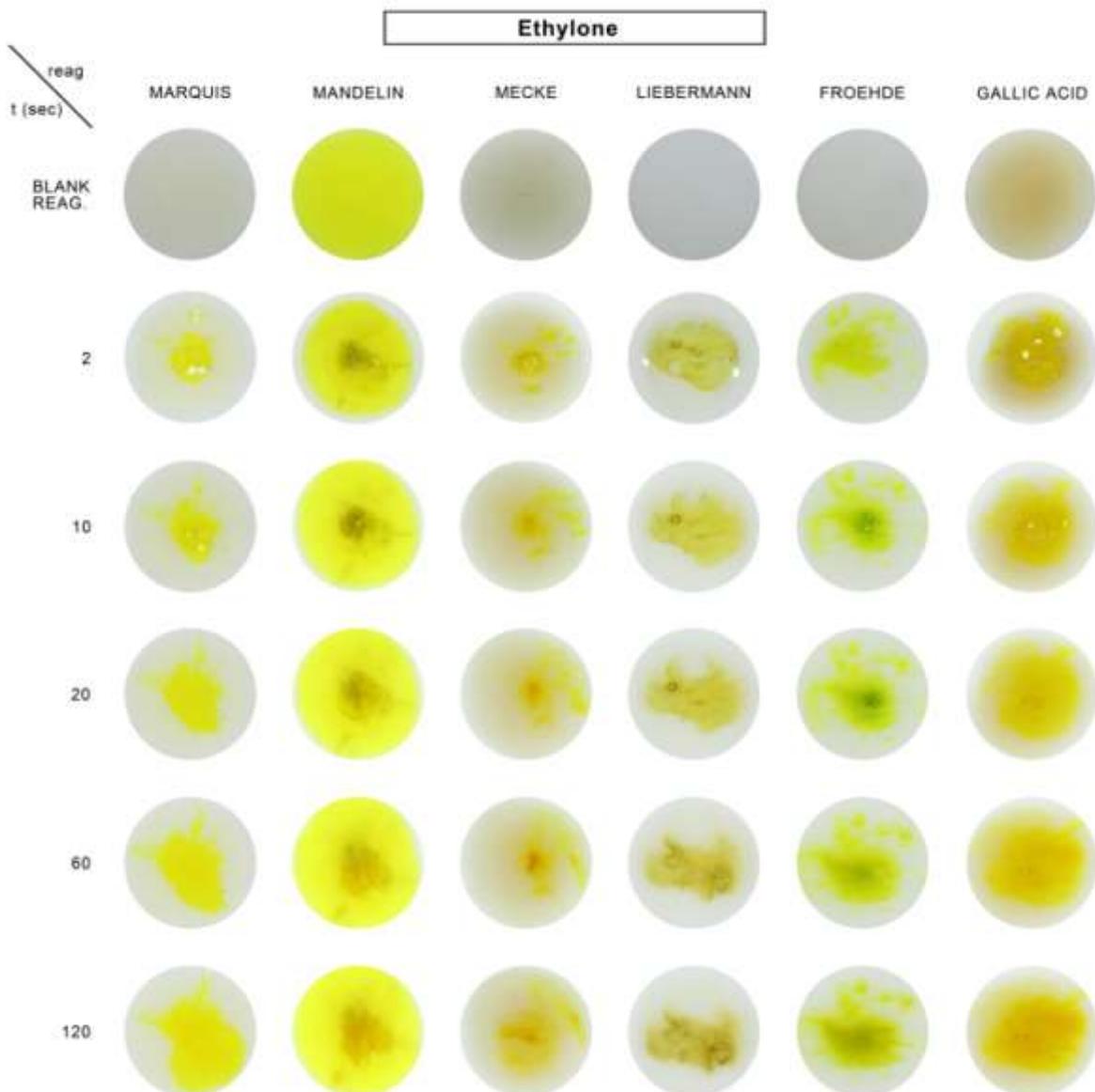
5.54. Naphyrone



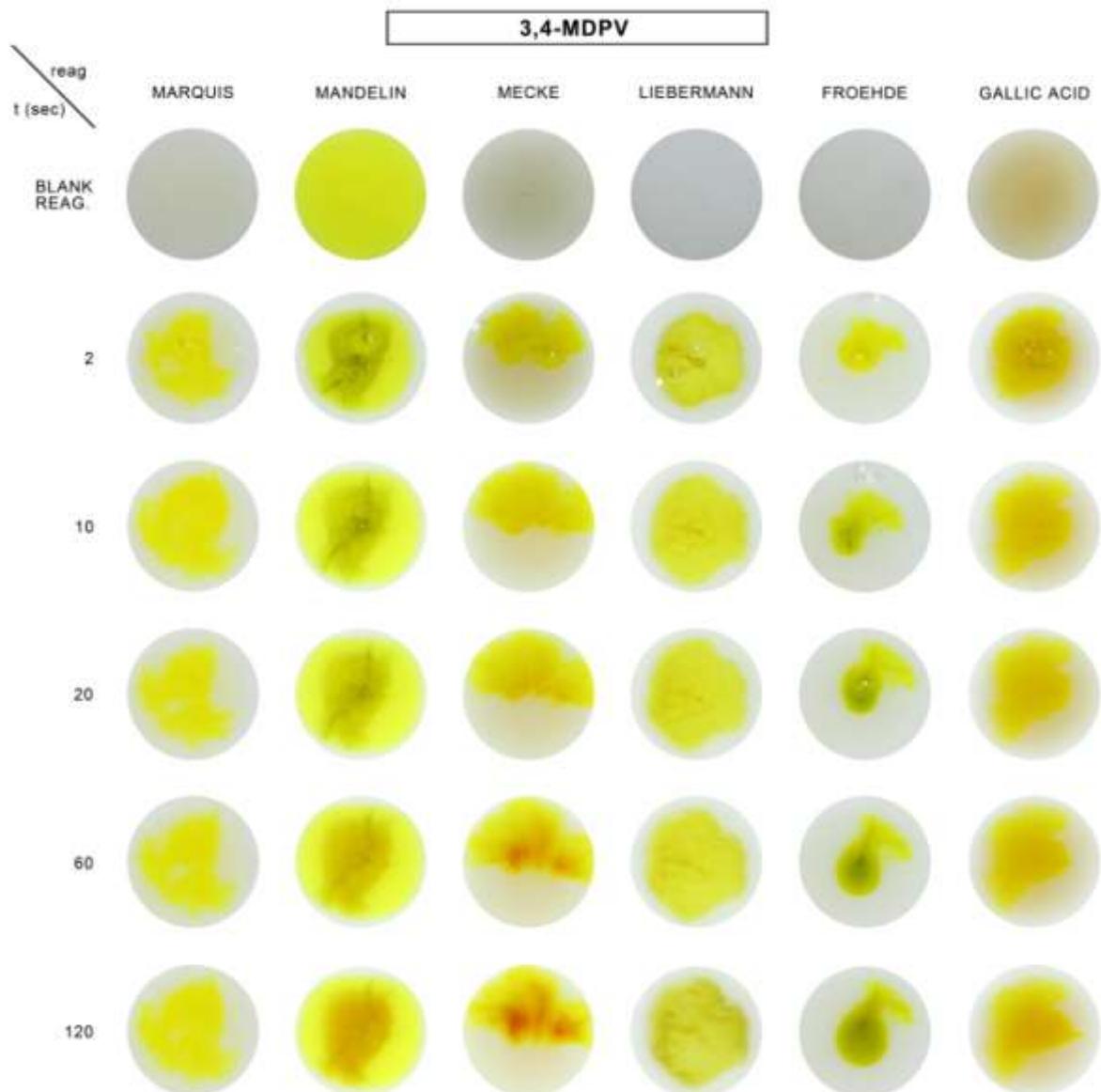
5.55. bk-MDA



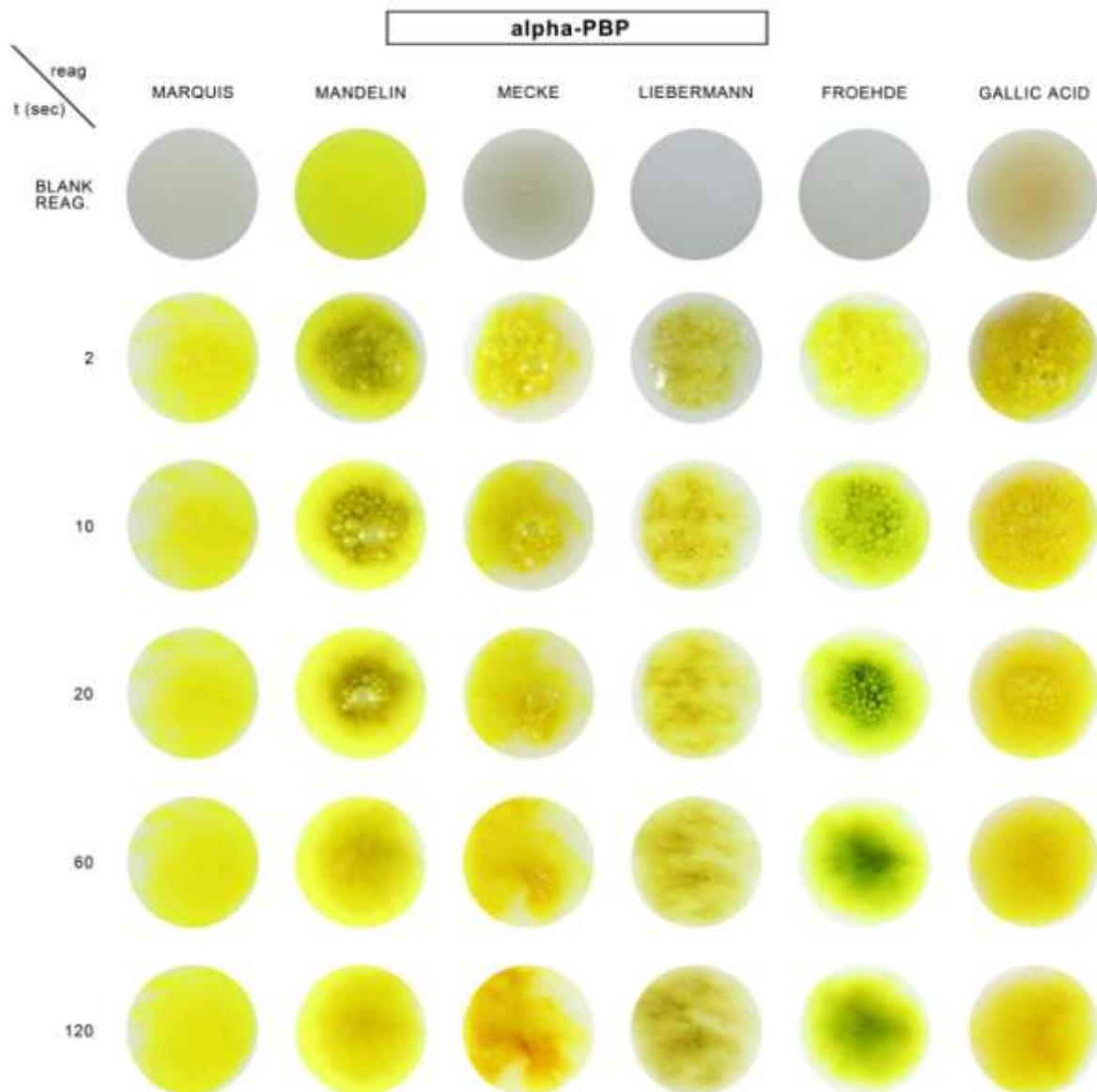
5.56. Ethylone



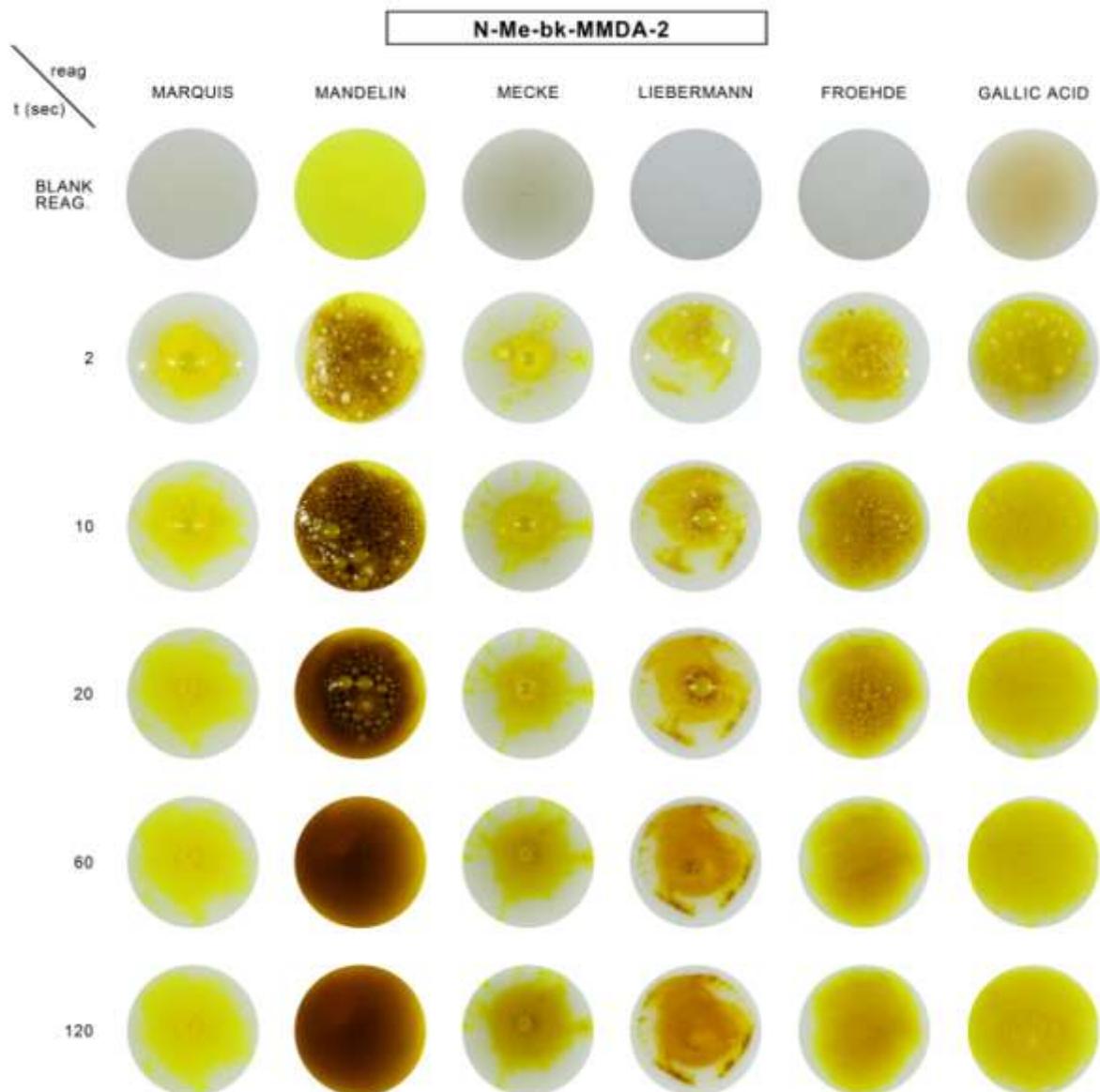
5.57. 3,4-MDPV



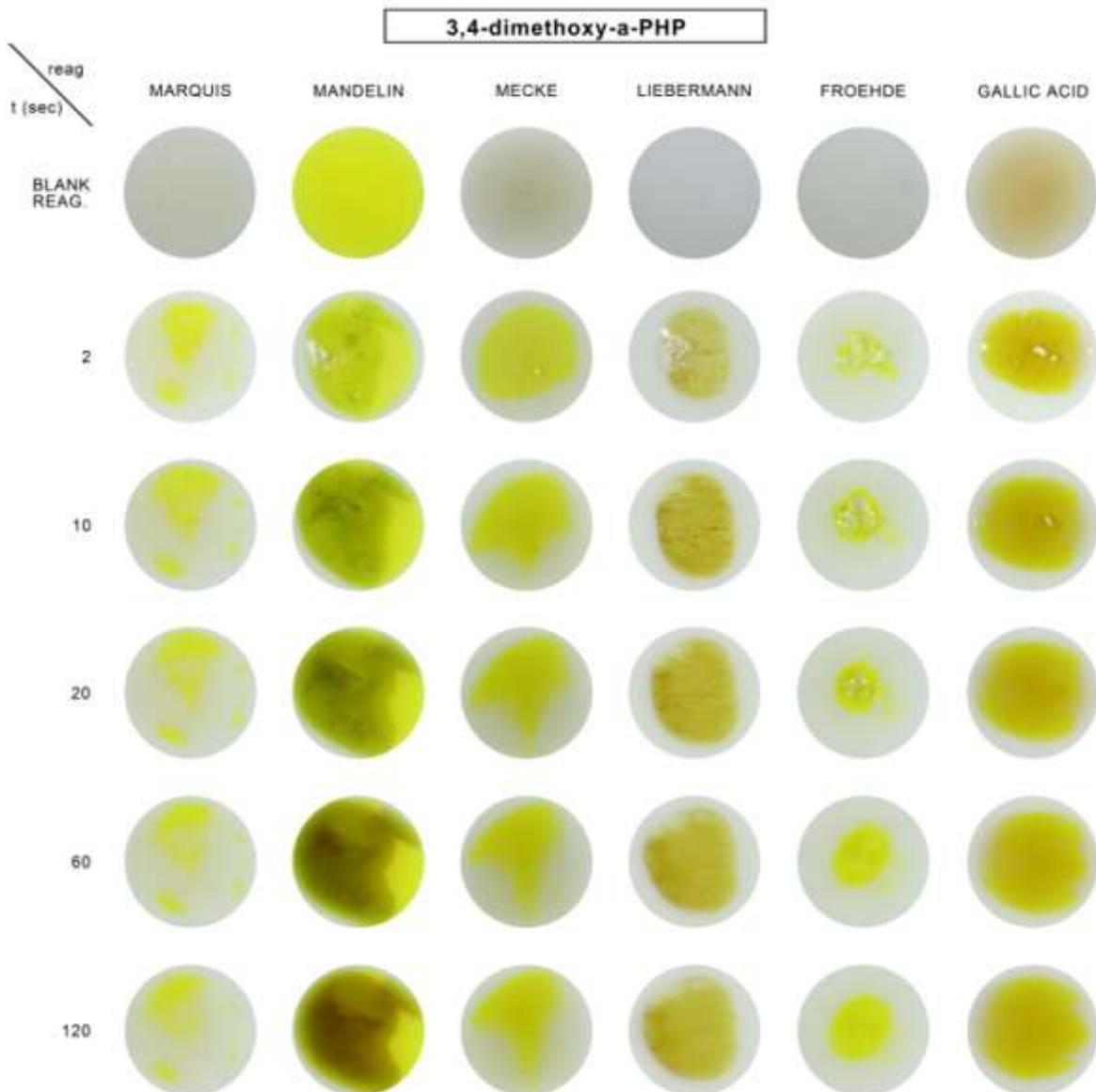
5.58. alpha-PBP



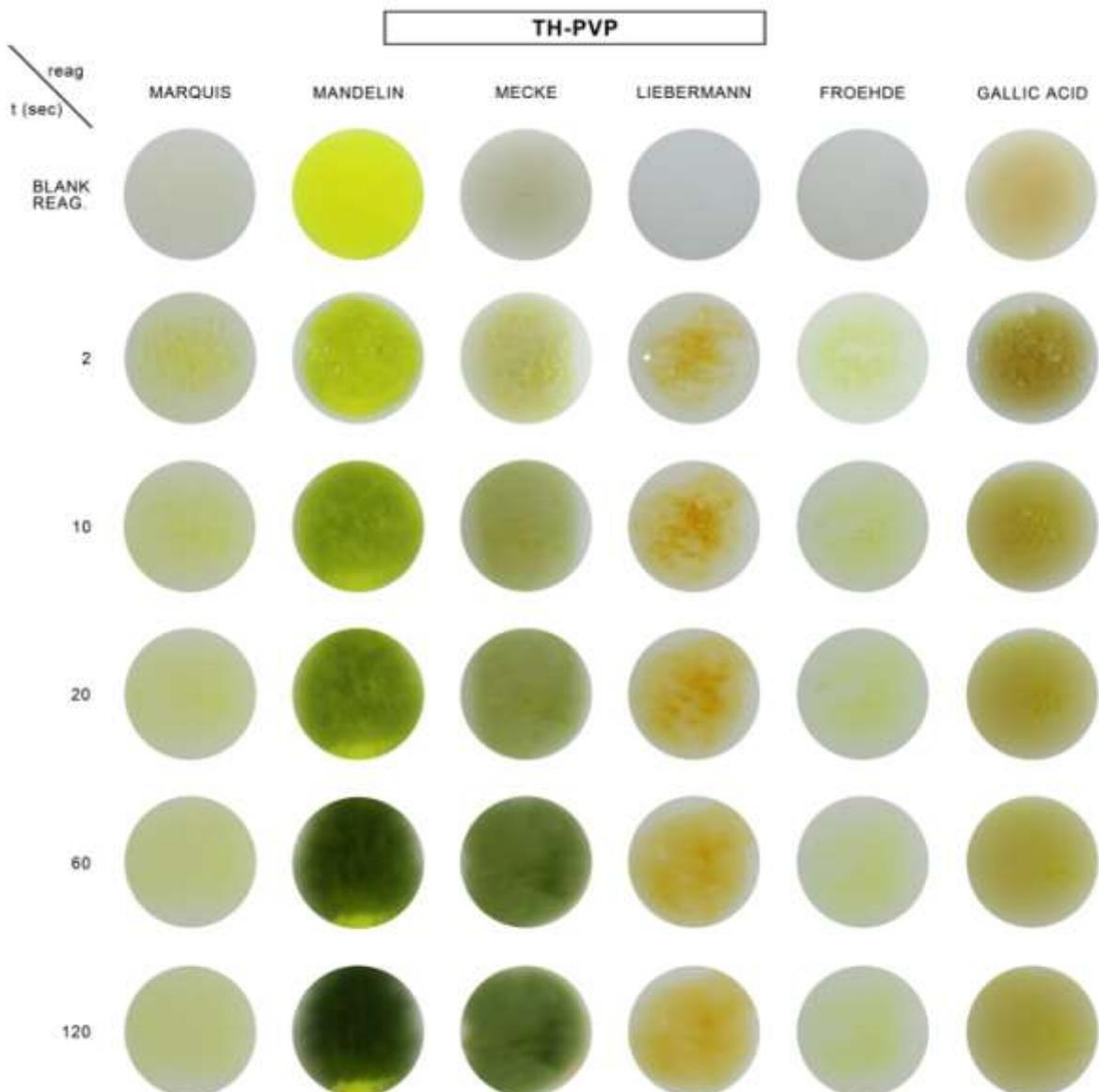
5.59. N-Me-bk-MMDA-2



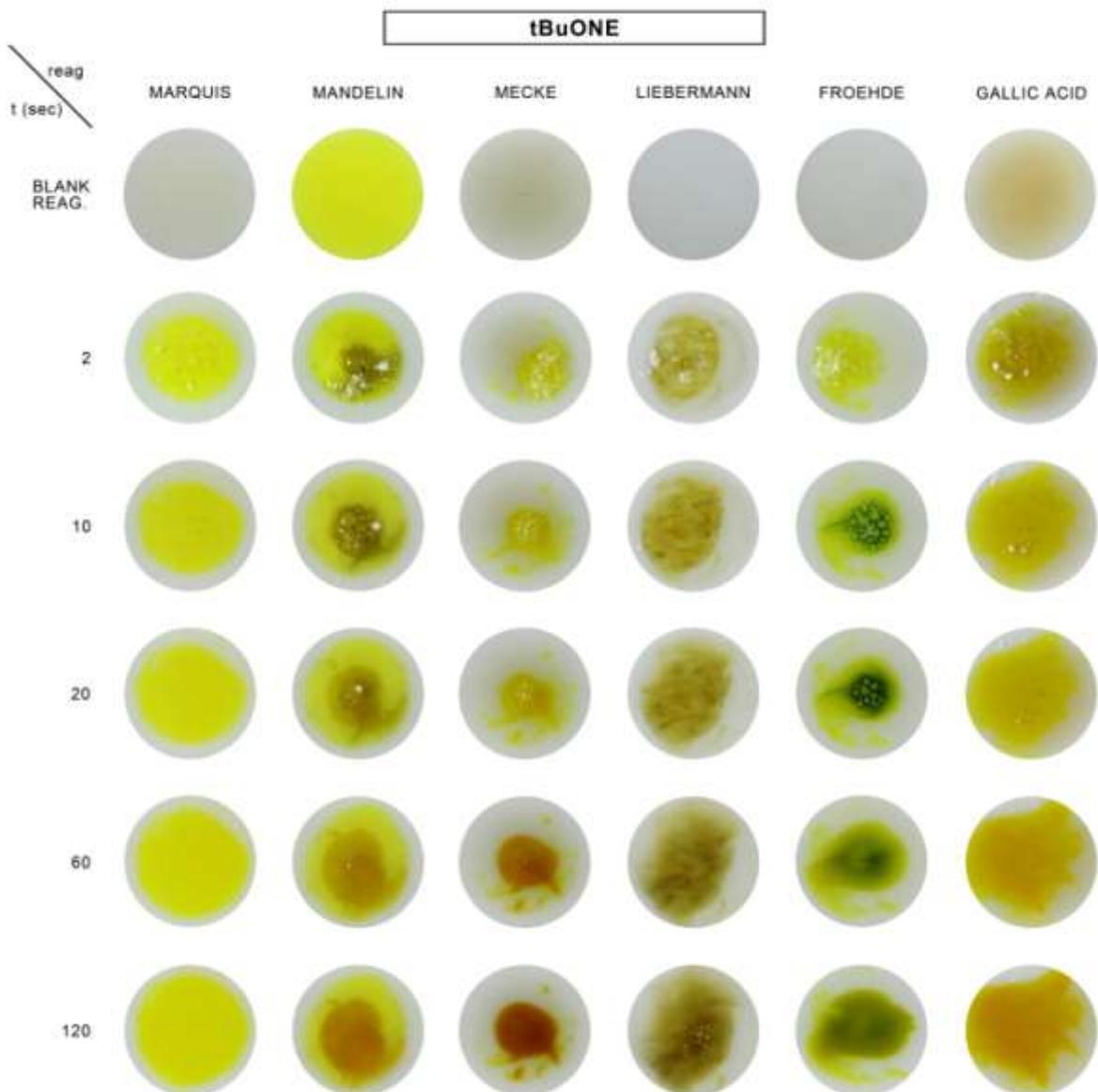
5.60. 3,4-dimethoxy- α -PHP



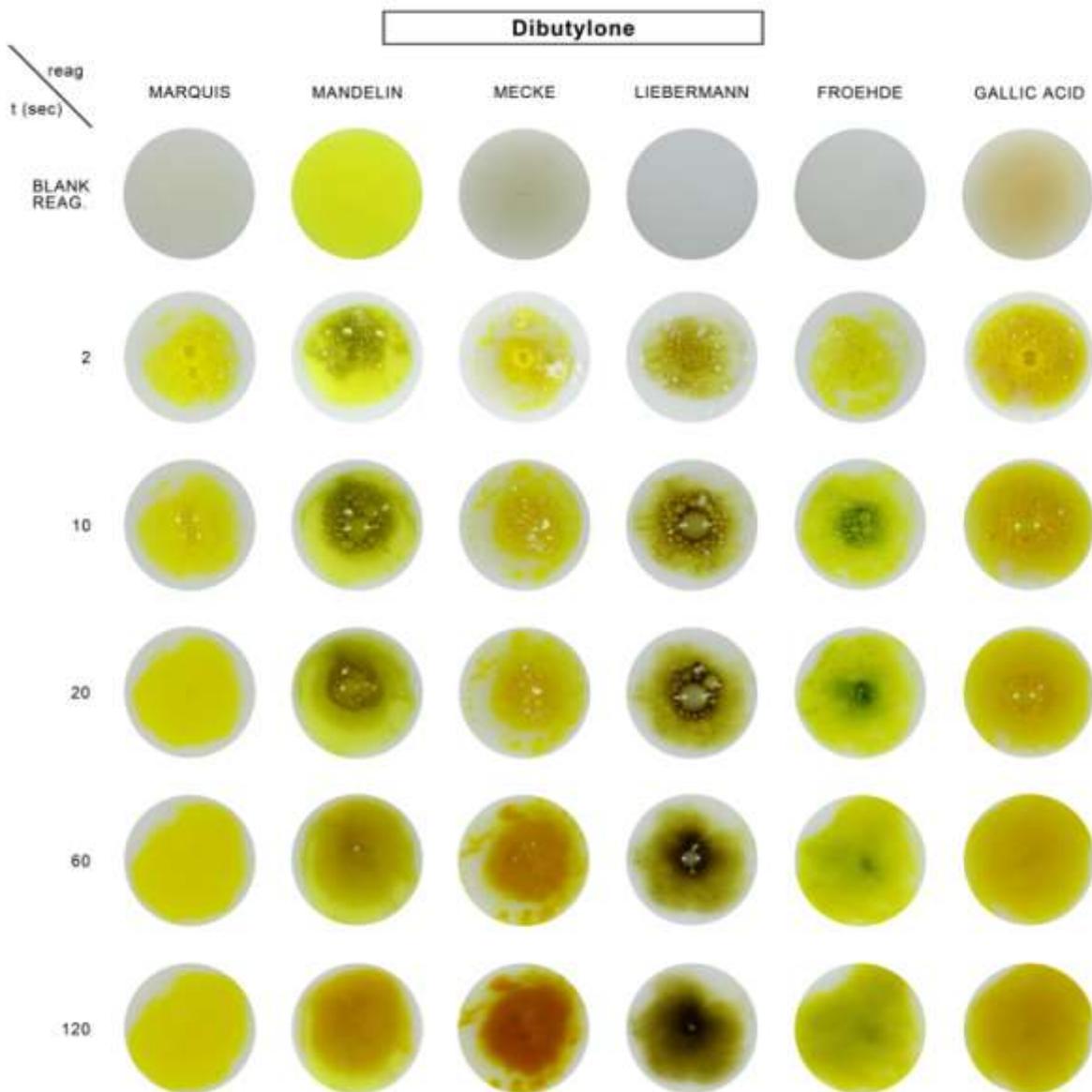
5.61. TH-PVP



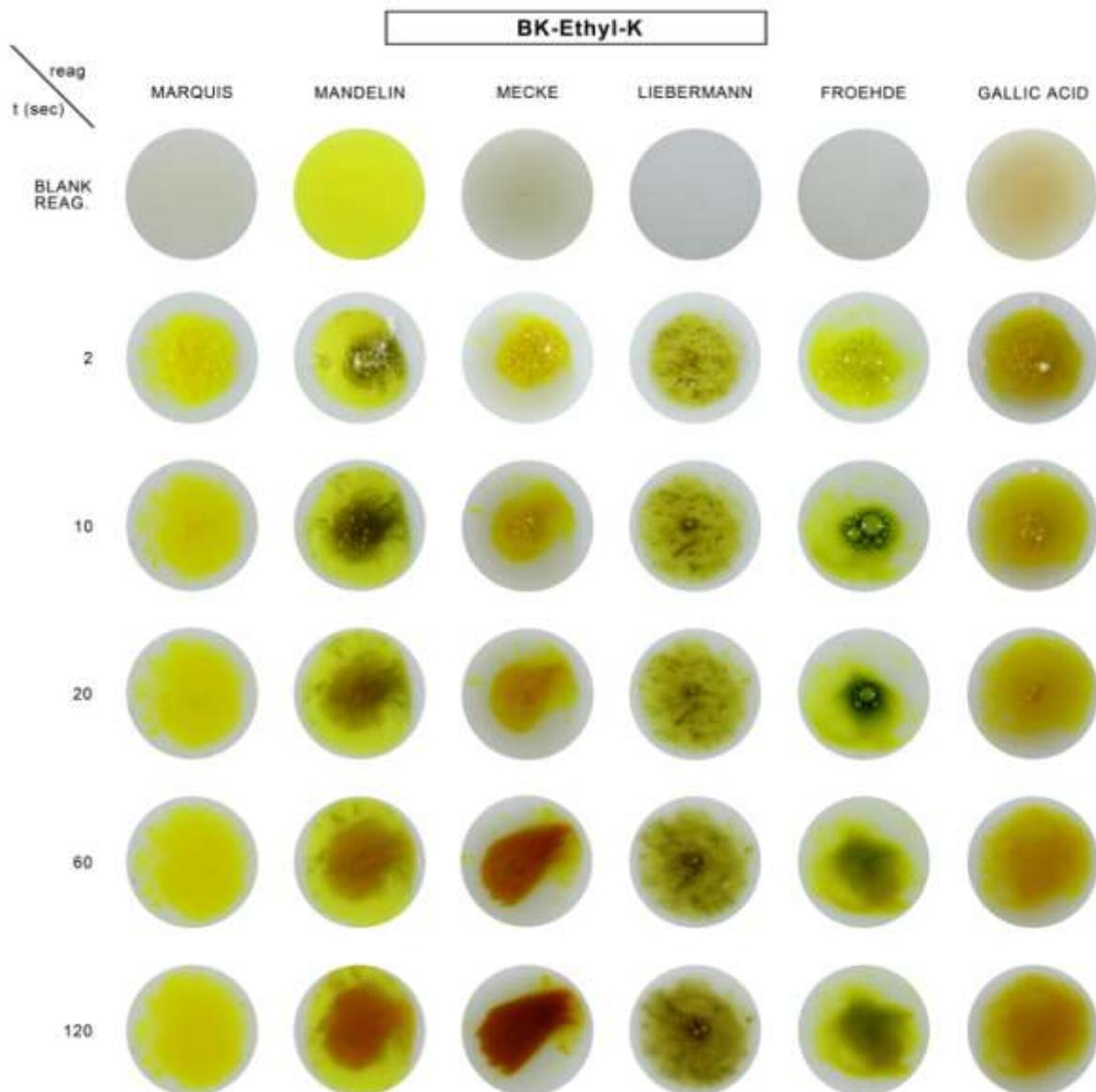
5.62. tBuONE



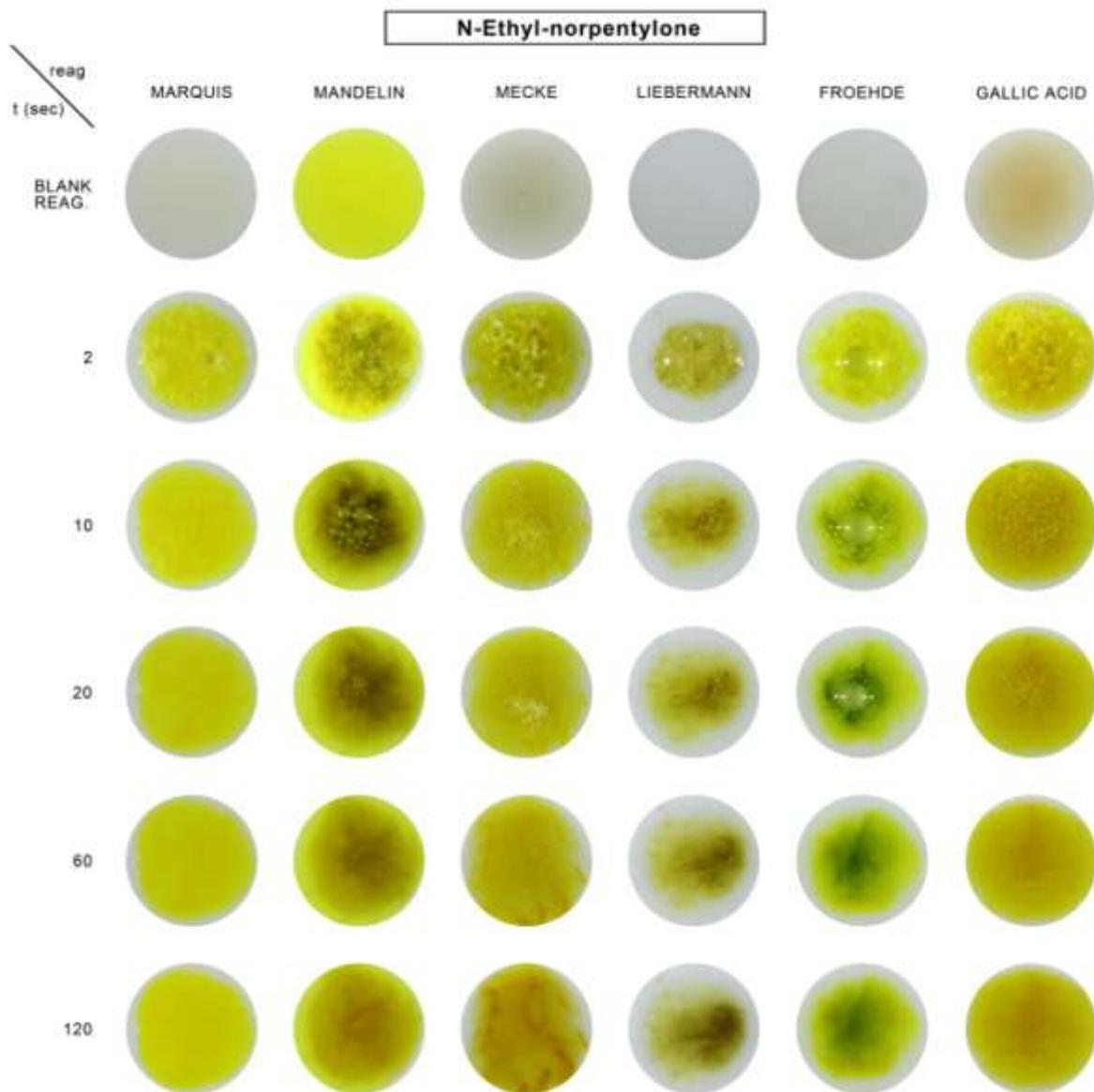
5.63. Dibutylone



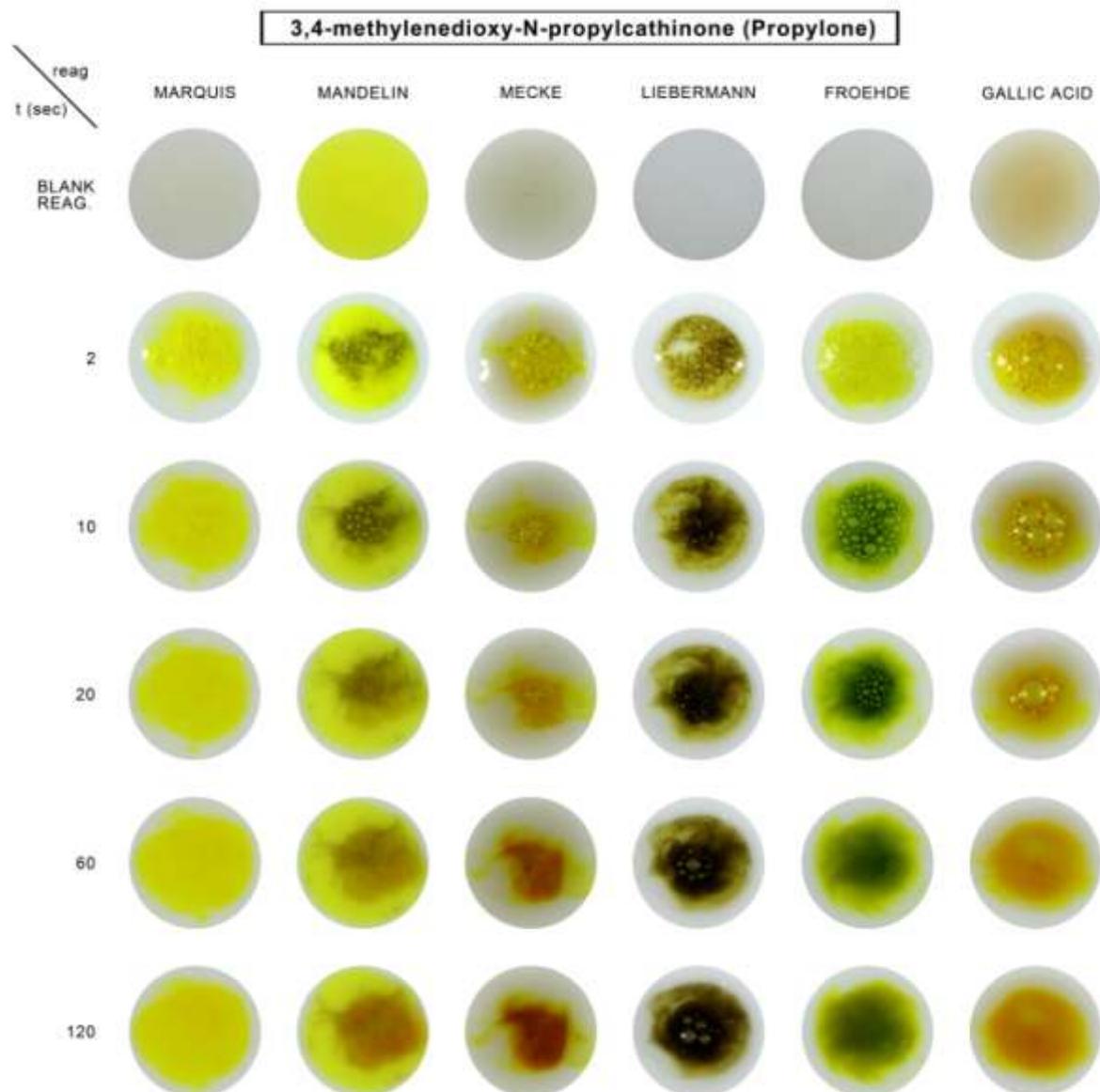
5.64. BK-Ethyl-K



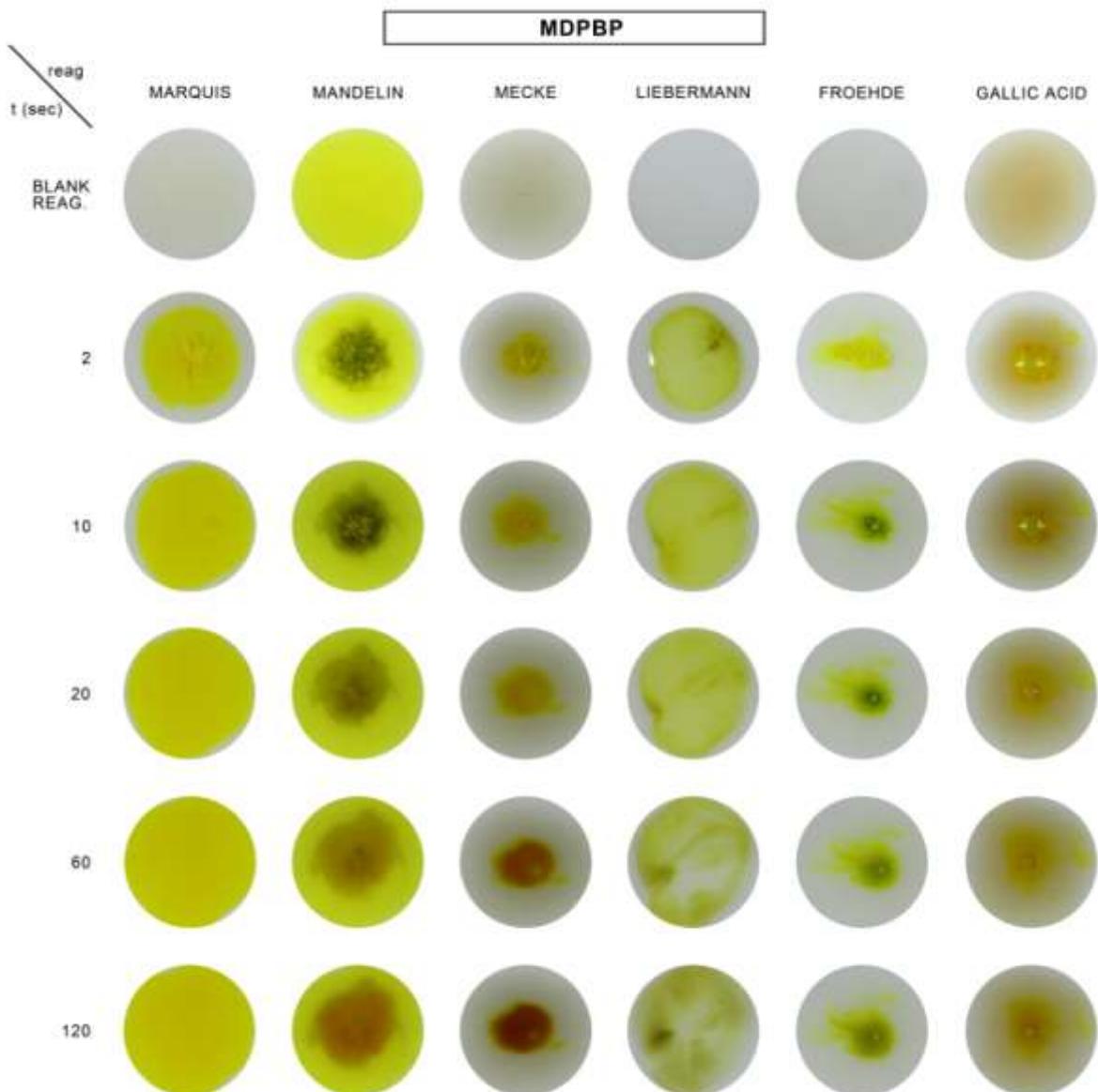
5.65. N-Ethyl-norpentylone



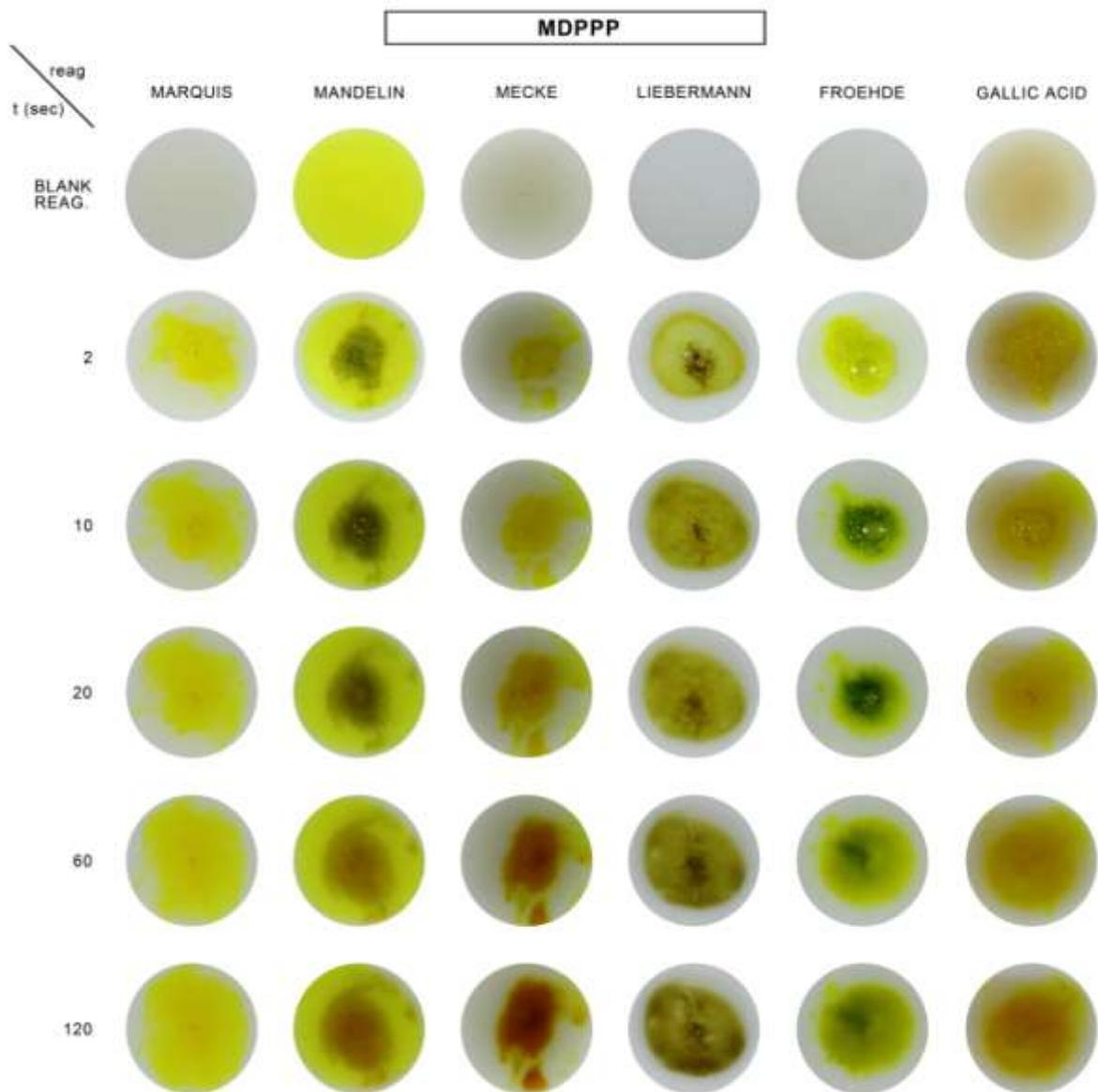
5.66. 3,4-methylenedioxy-N-propylcathinone (Propylone)



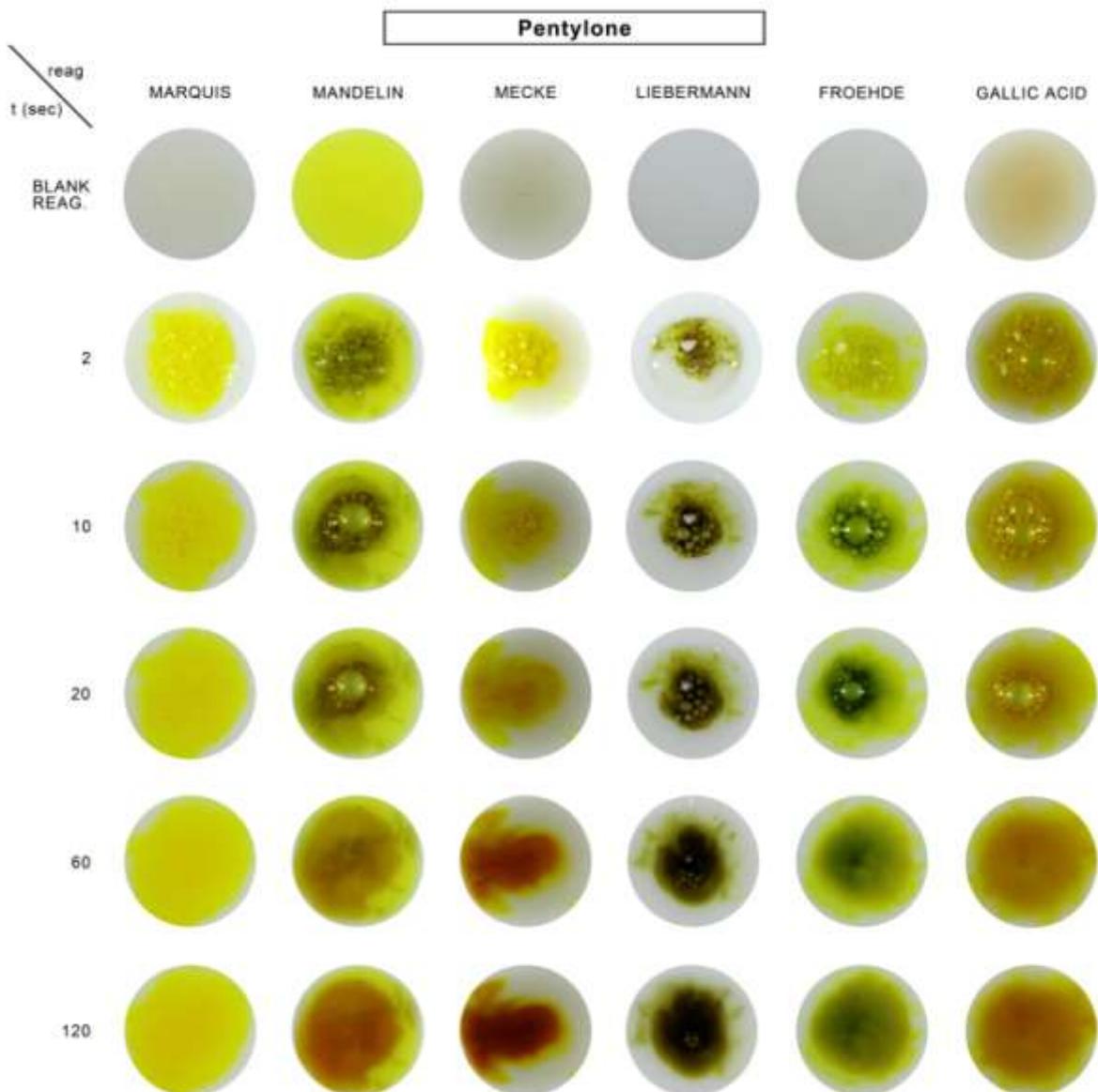
5.67. MDPBP



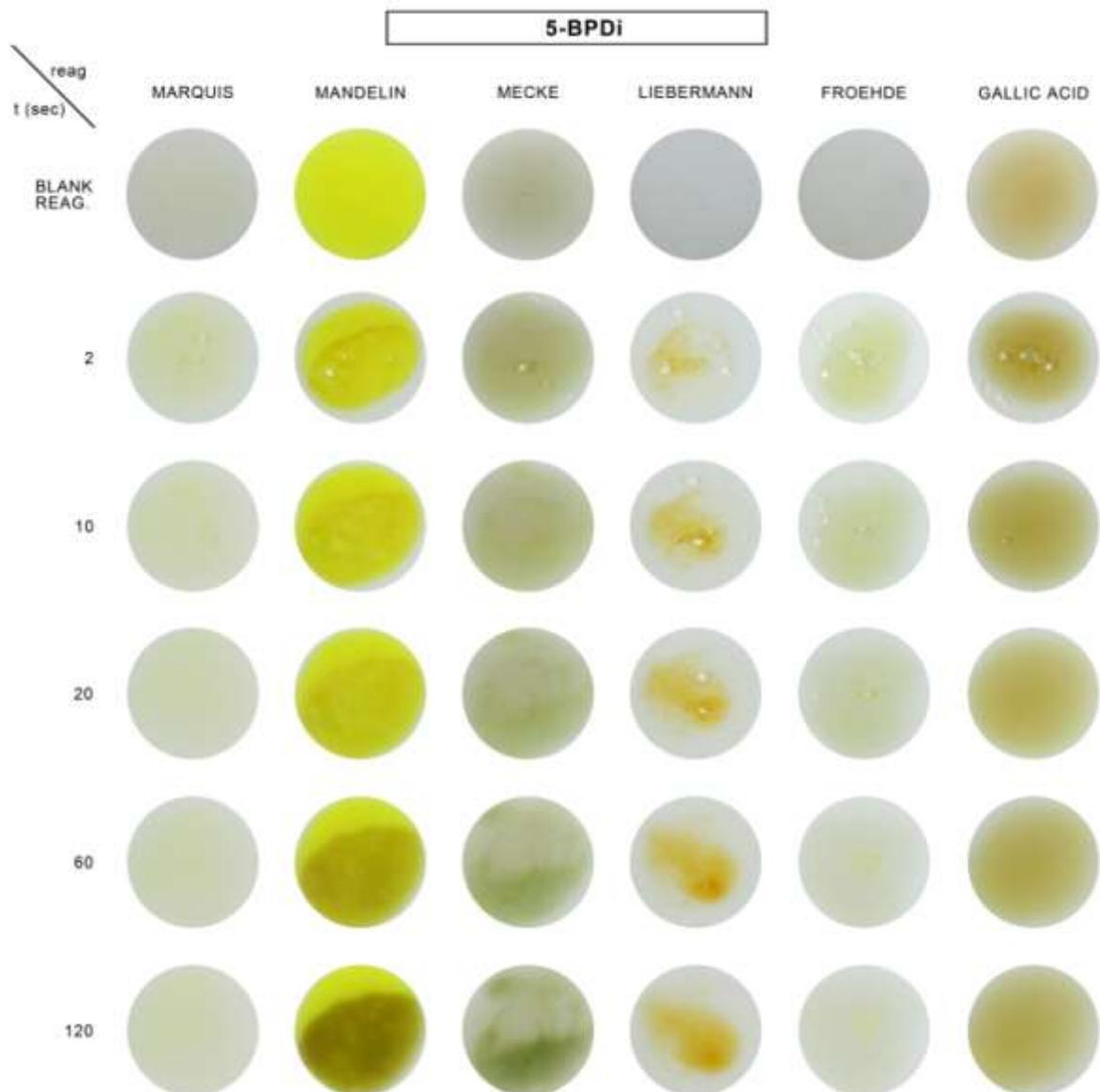
5.68. MDPPP



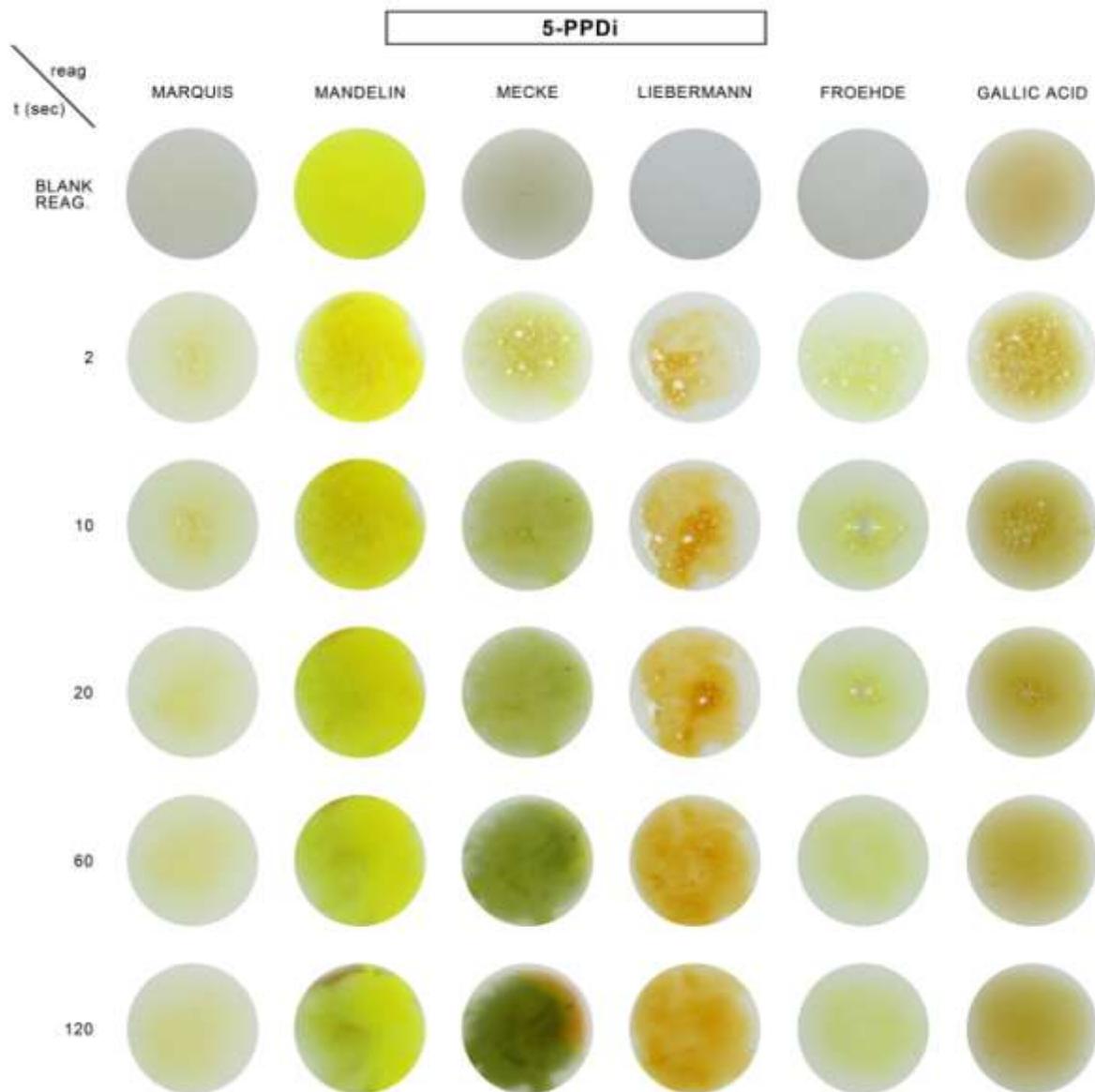
5.69. Pentyrlone



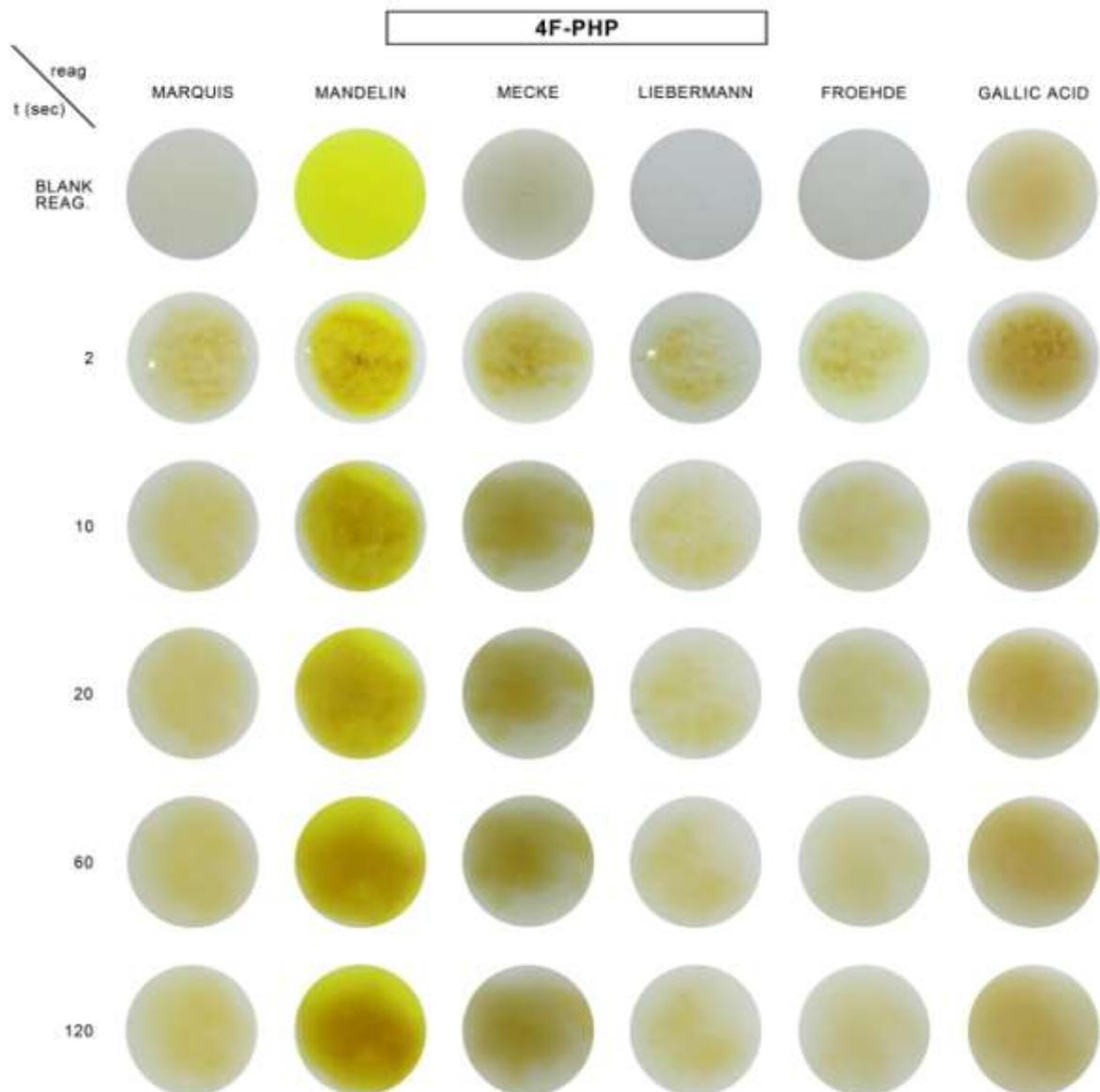
5.70. 5-BPDi



5.71. 5-PPDi

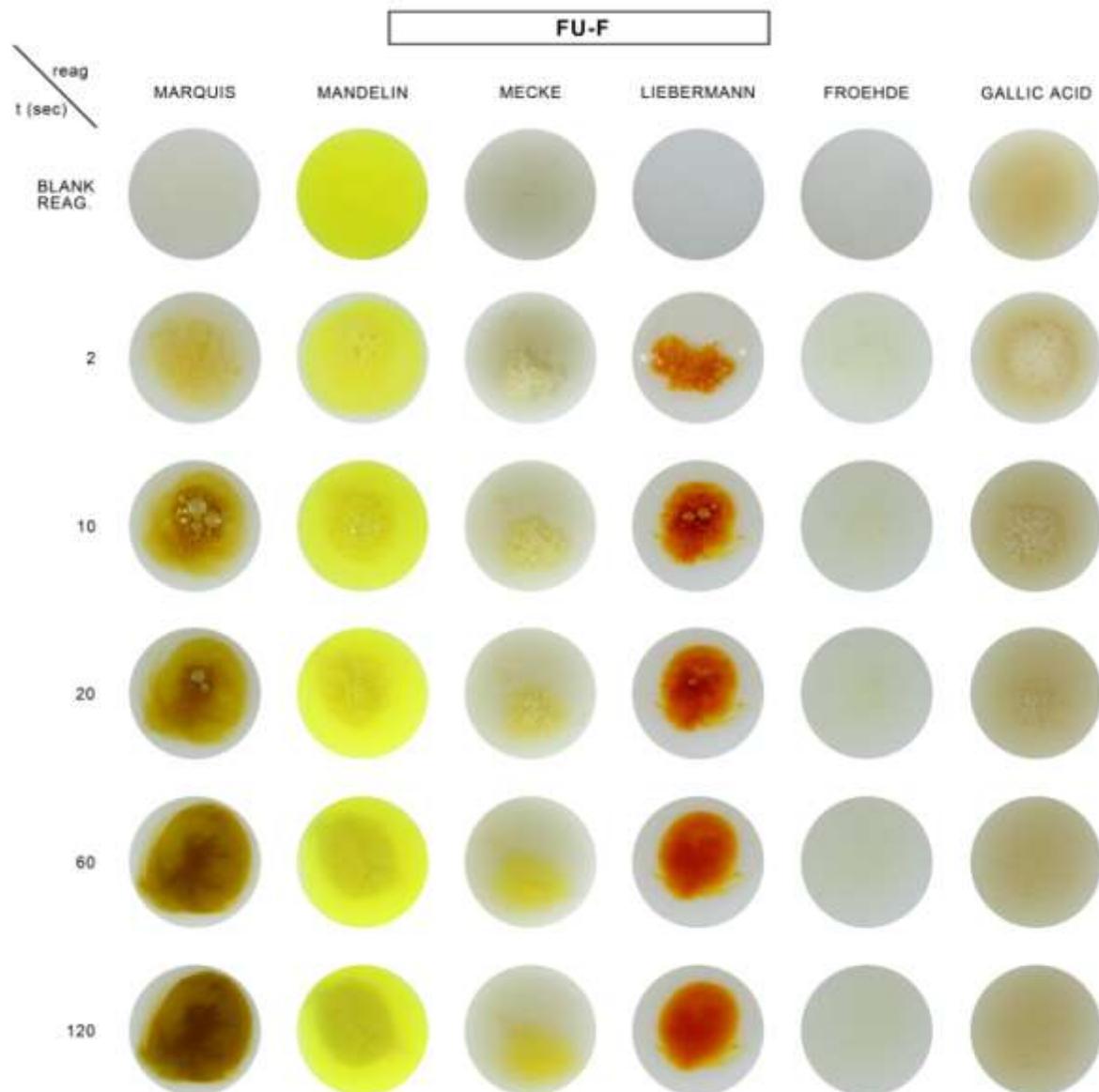


5.72. 4F-PHP

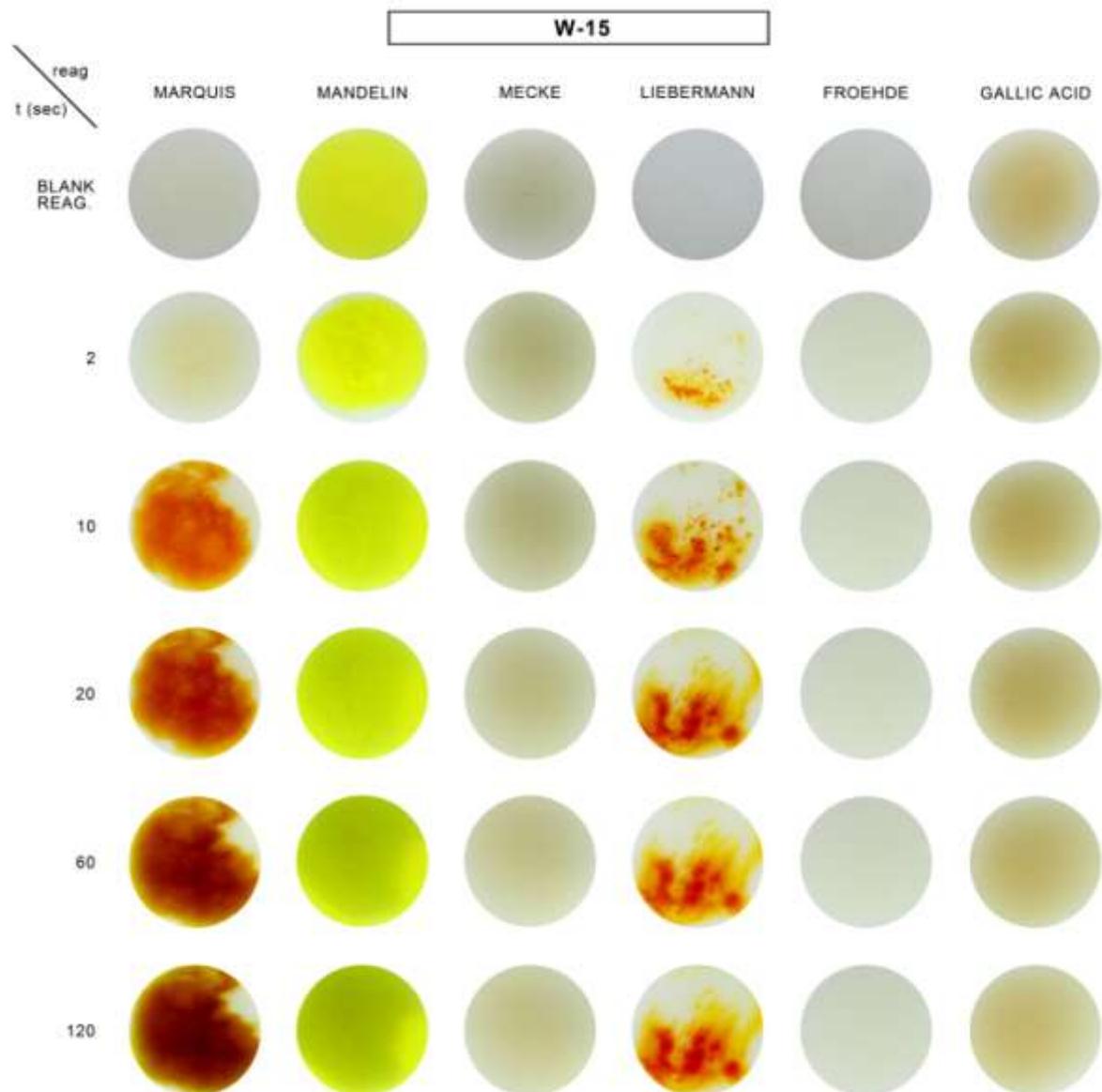


6. Opioids

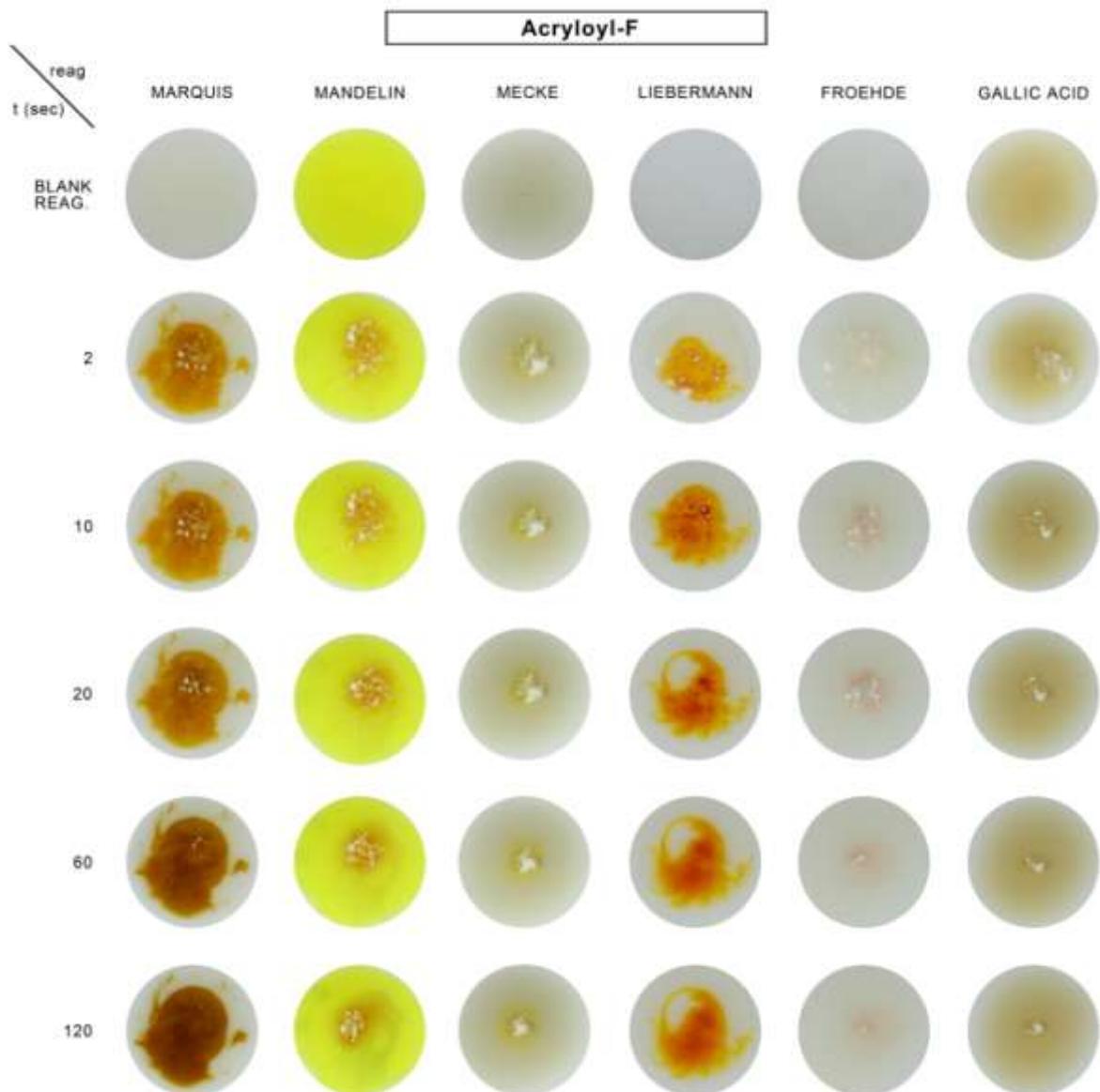
6.1. FU-F



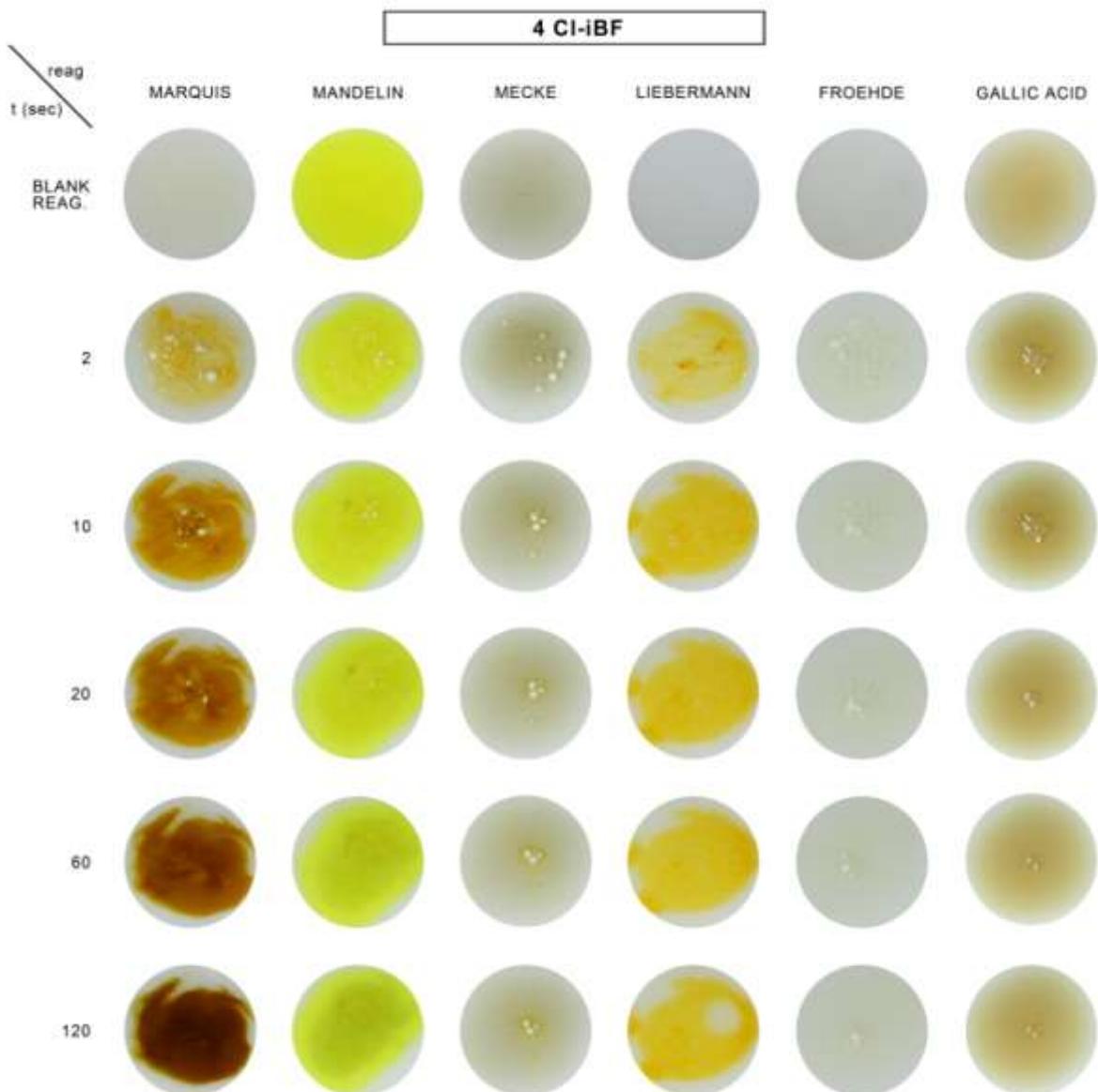
6.2. W-15



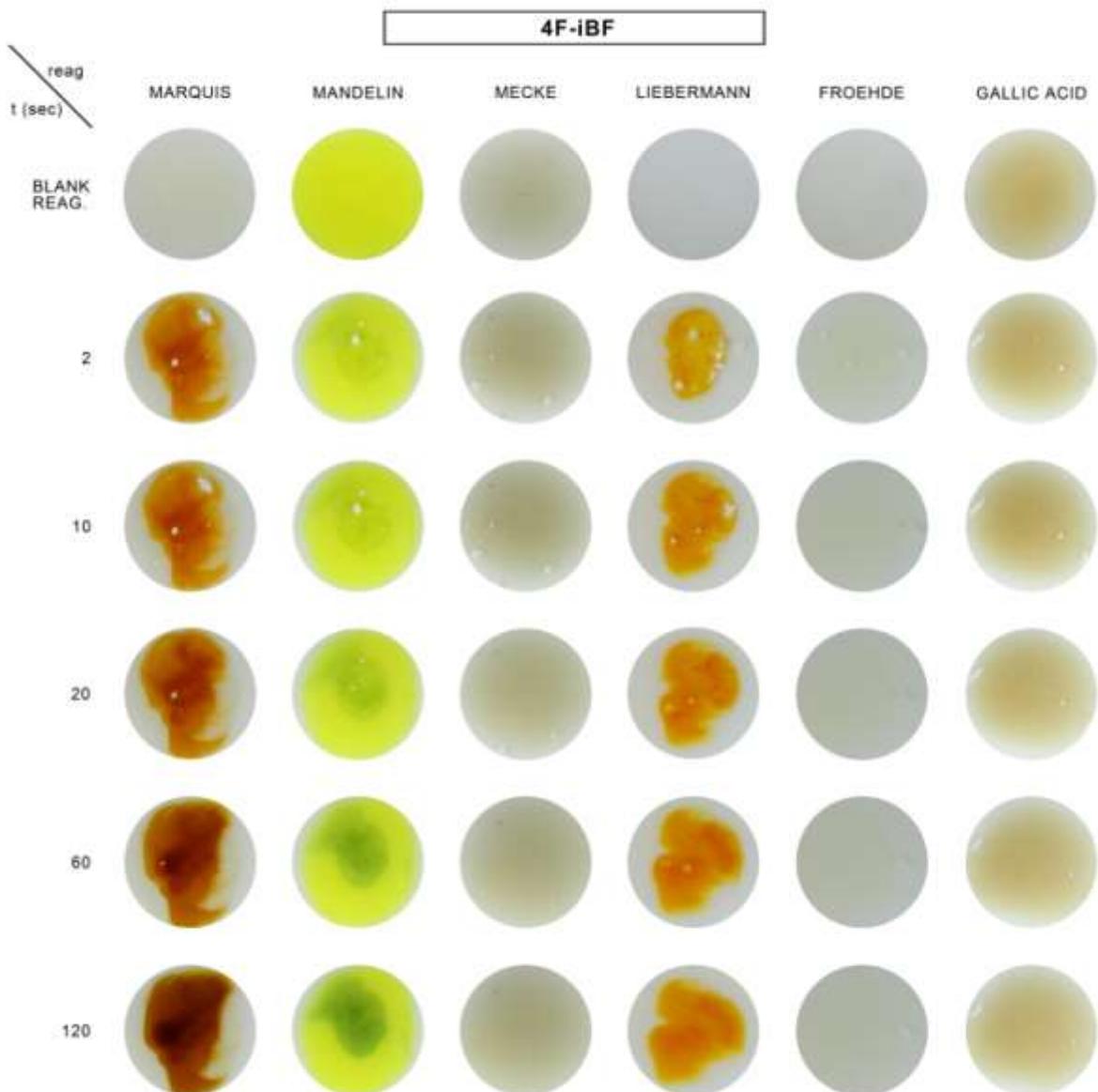
6.3. Acryloyl-F



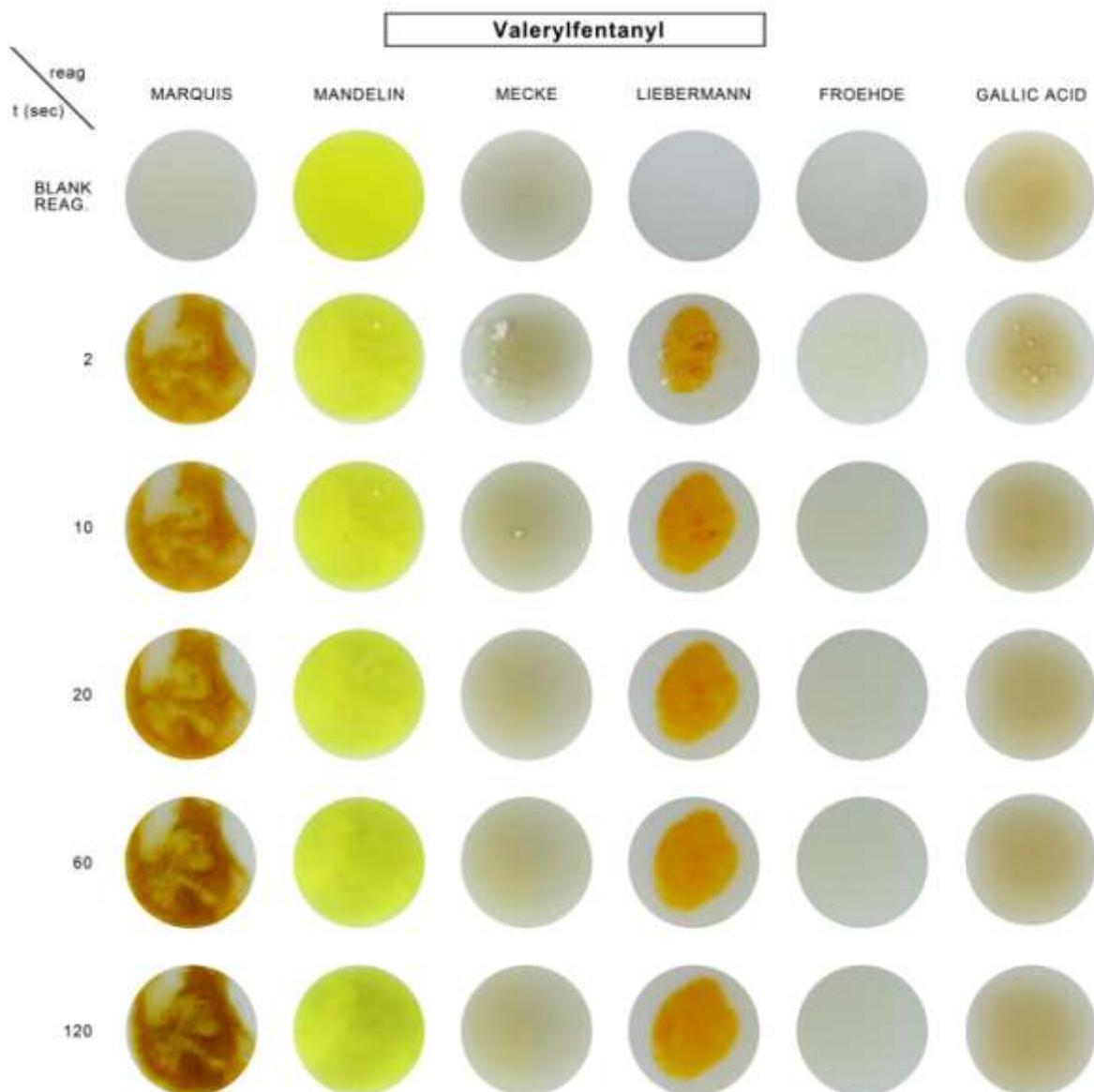
6.4. 4Cl-iBF



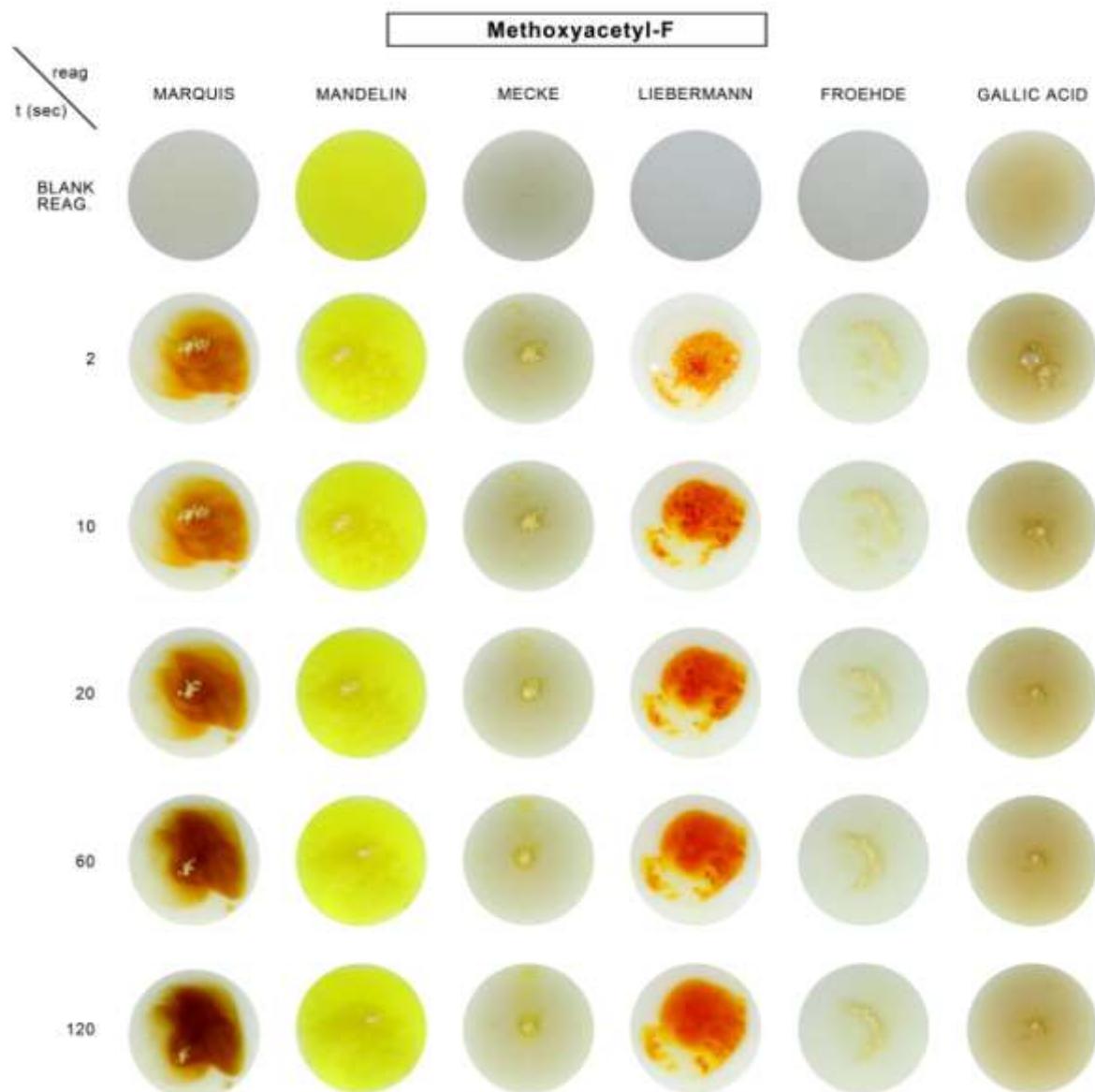
6.5. 4F-iBF



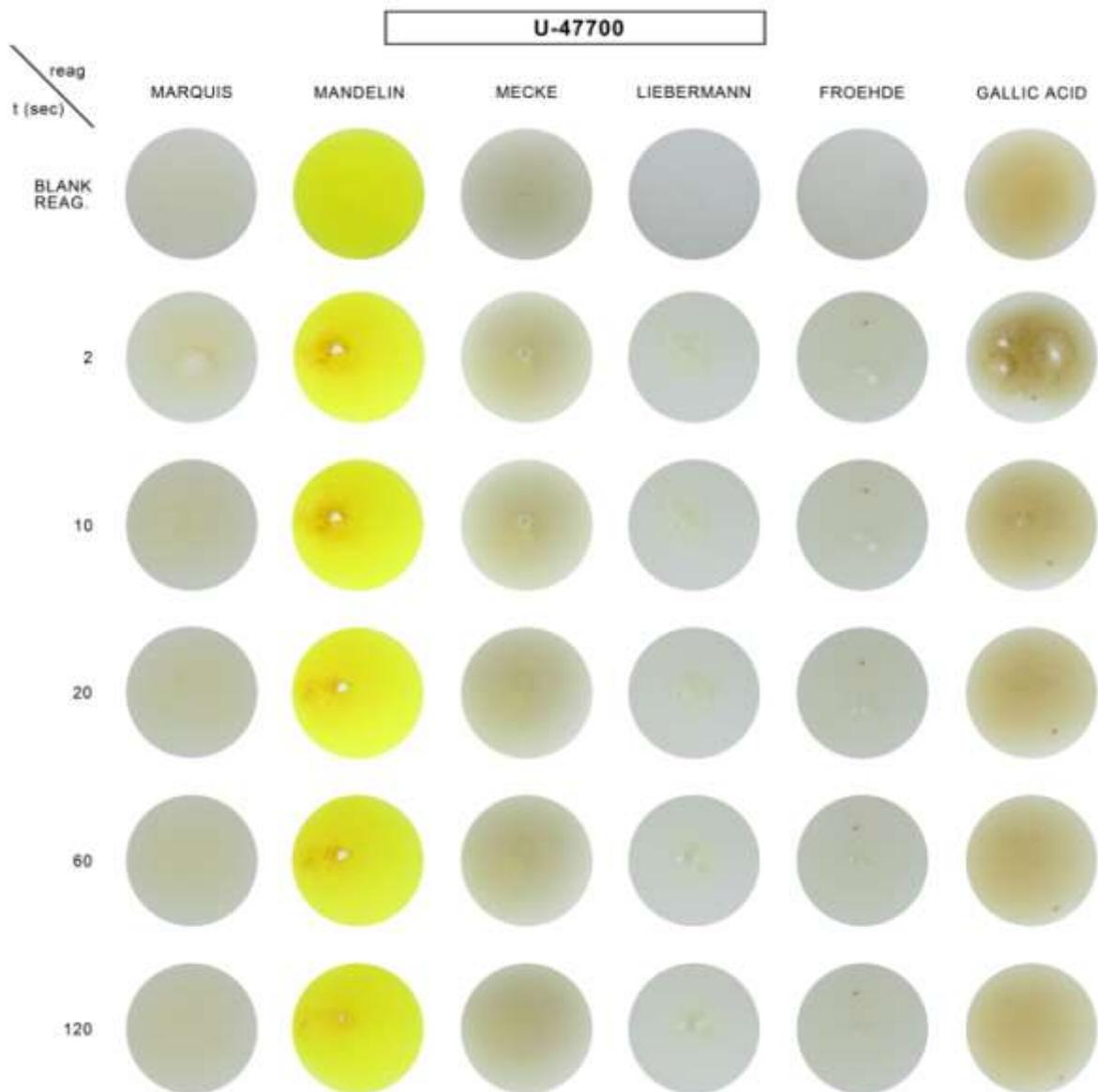
6.6. Valerylentanyl



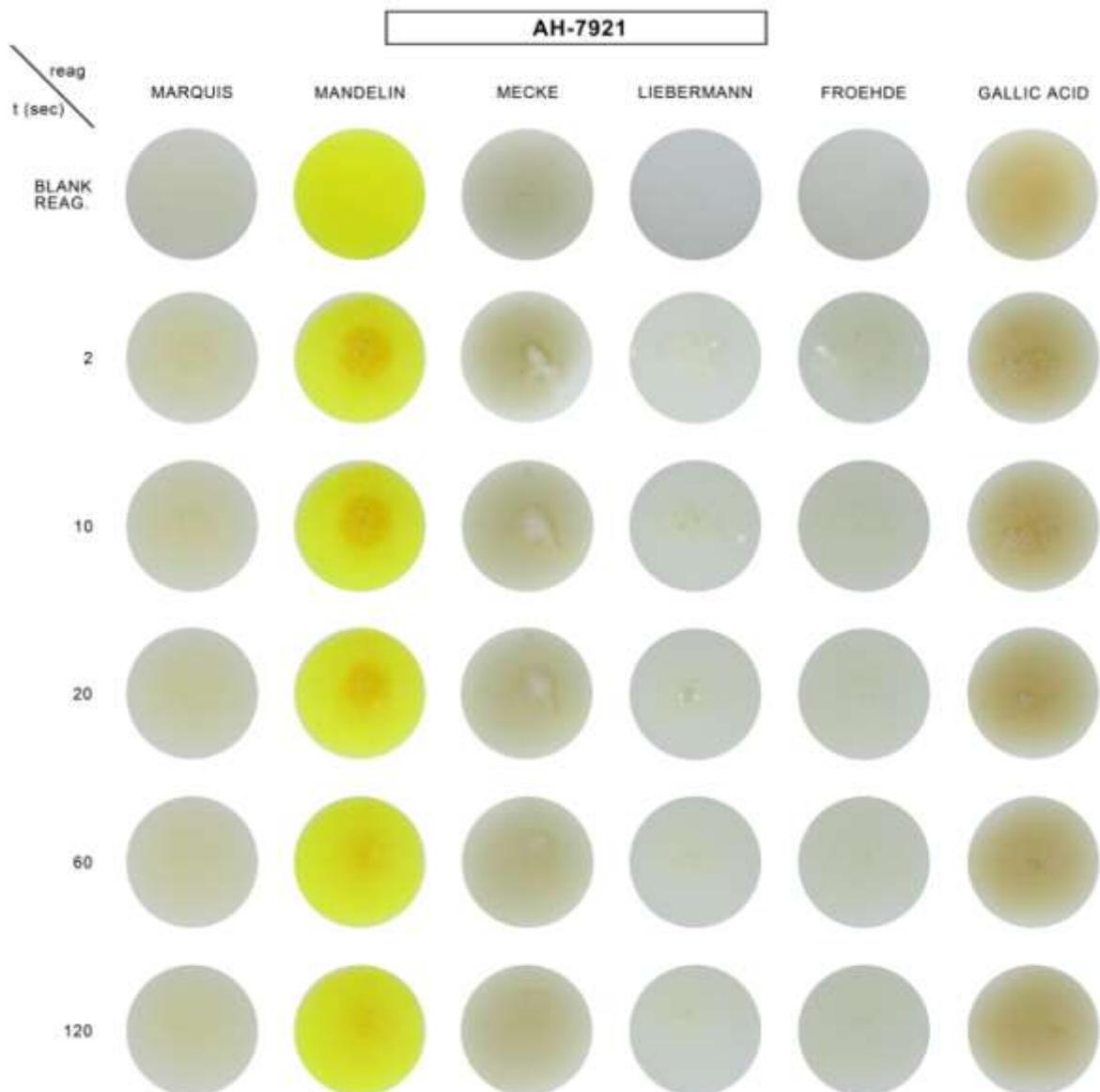
6.7. Methoxyacetyl-F



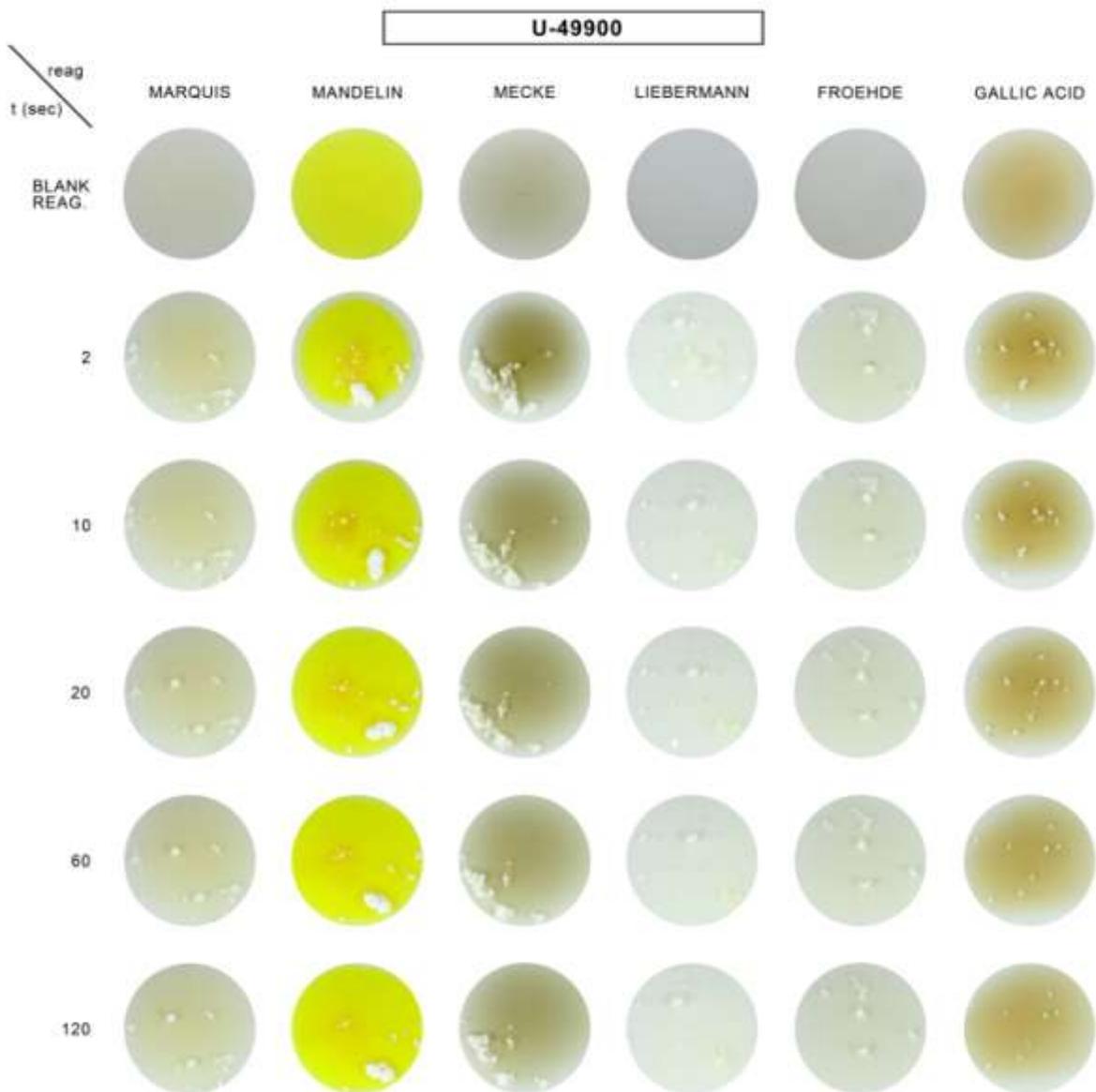
6.8. U-47700



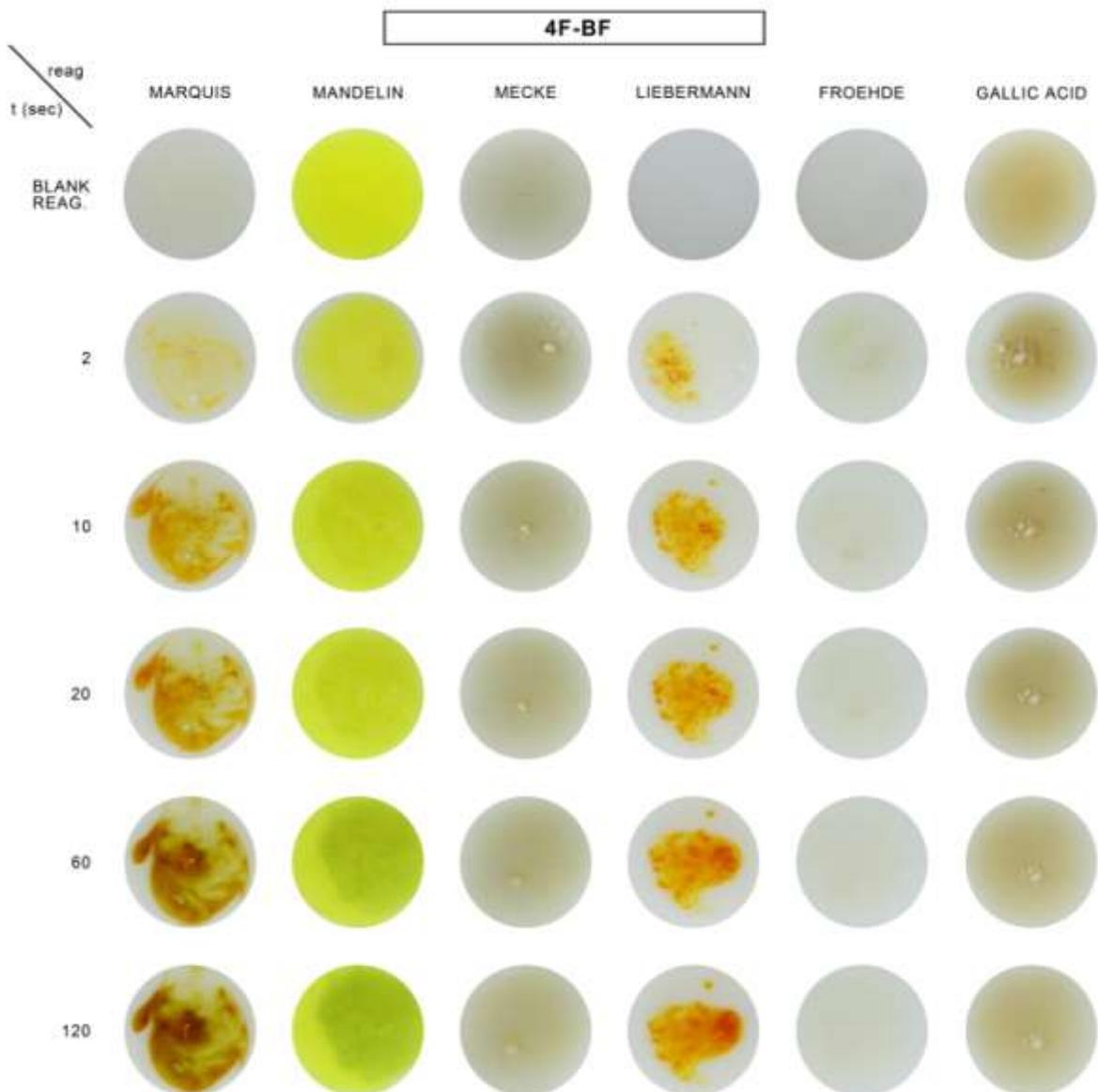
6.9. AH-7921



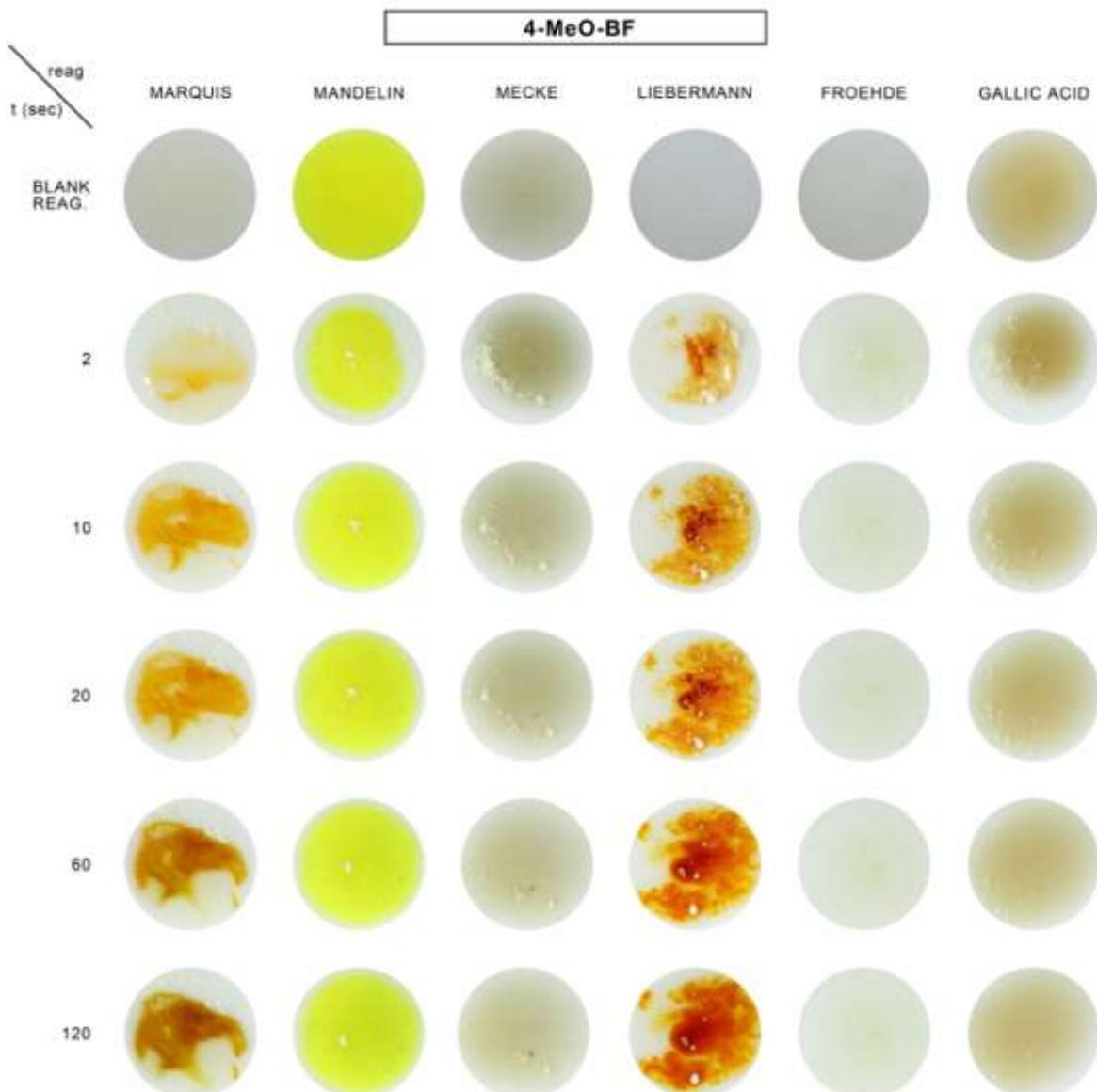
6.10. U-49900



6.11. 4F-BF

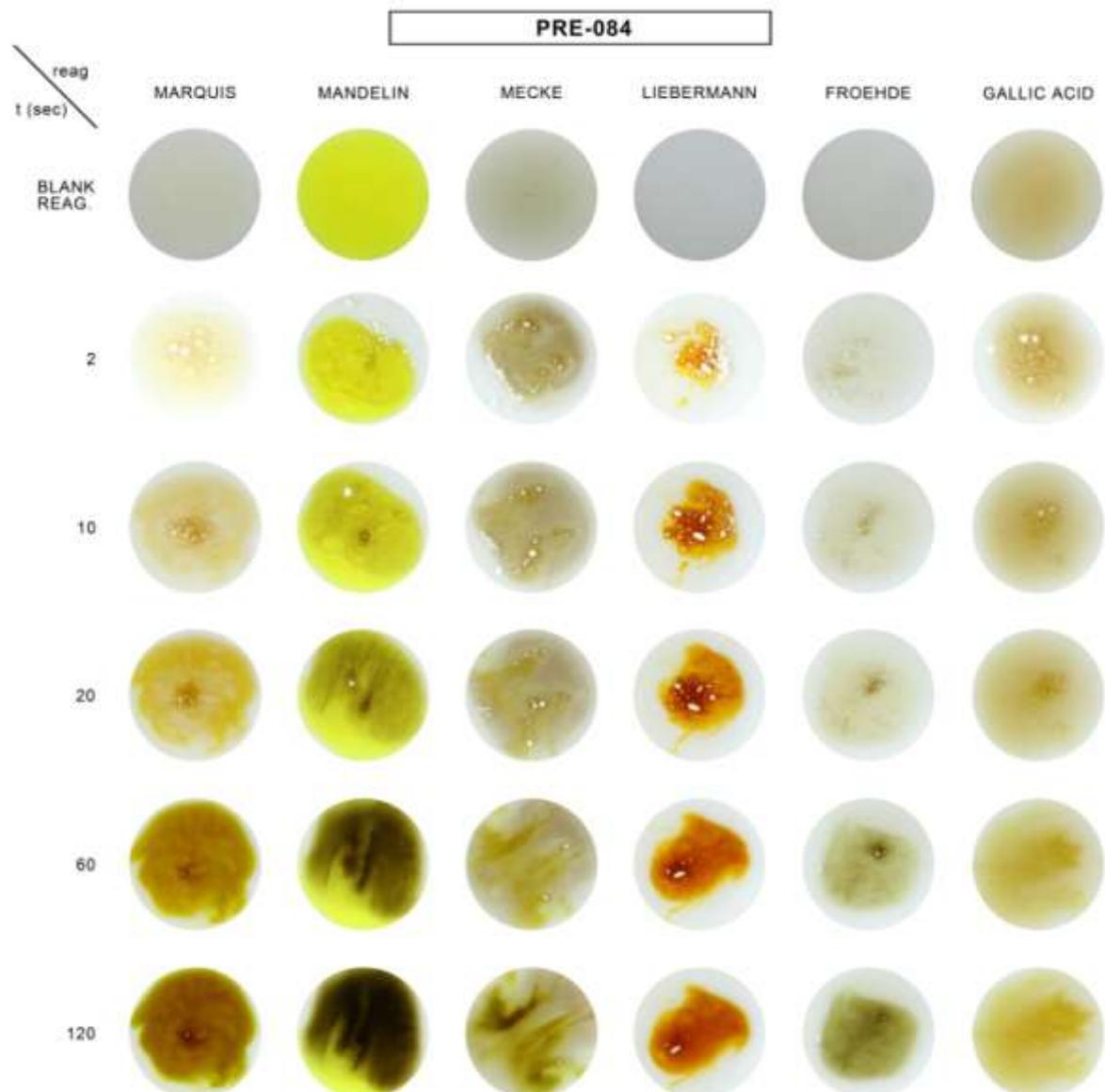


6.12. 4-MeO-BF

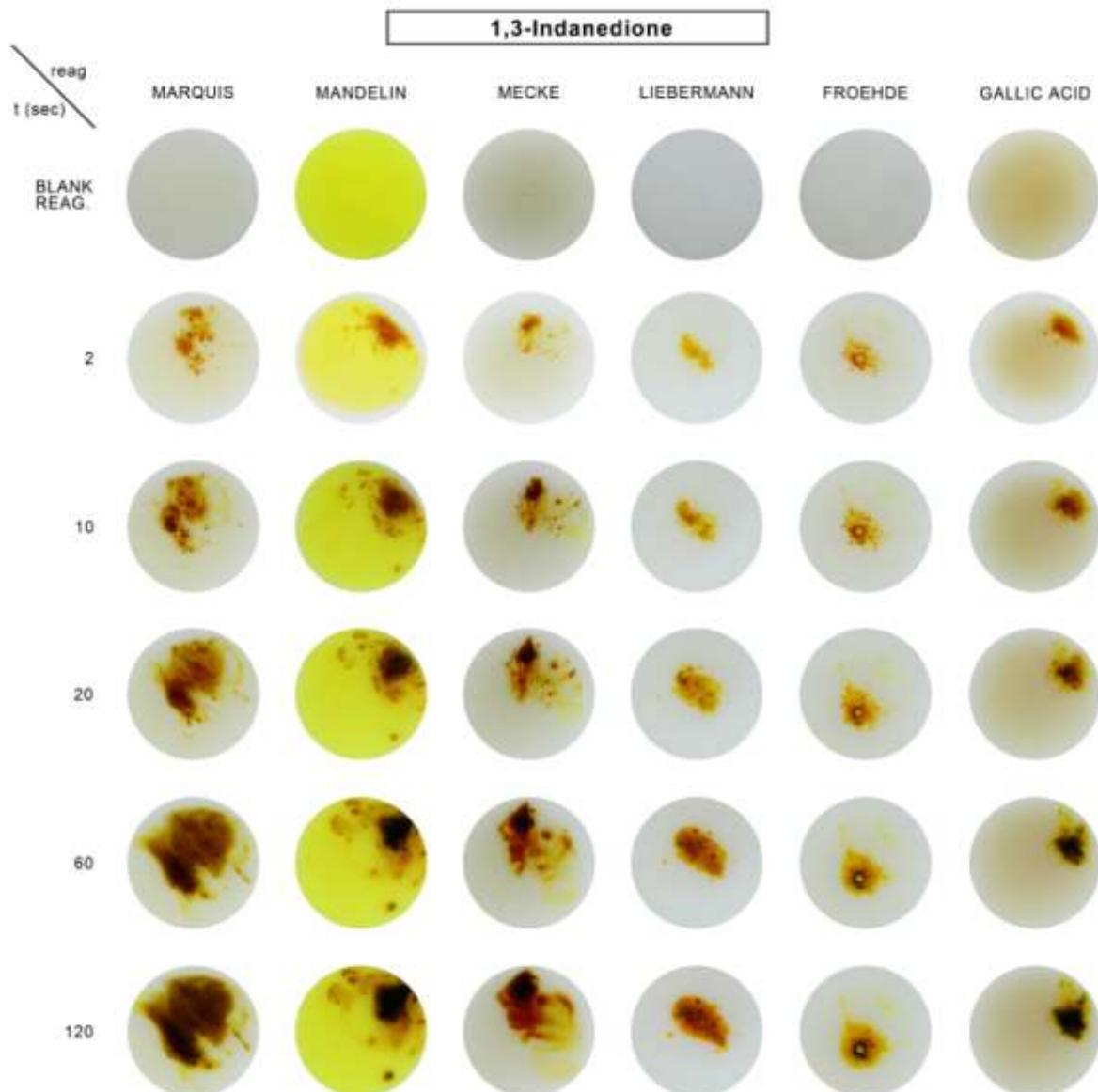


7. Others

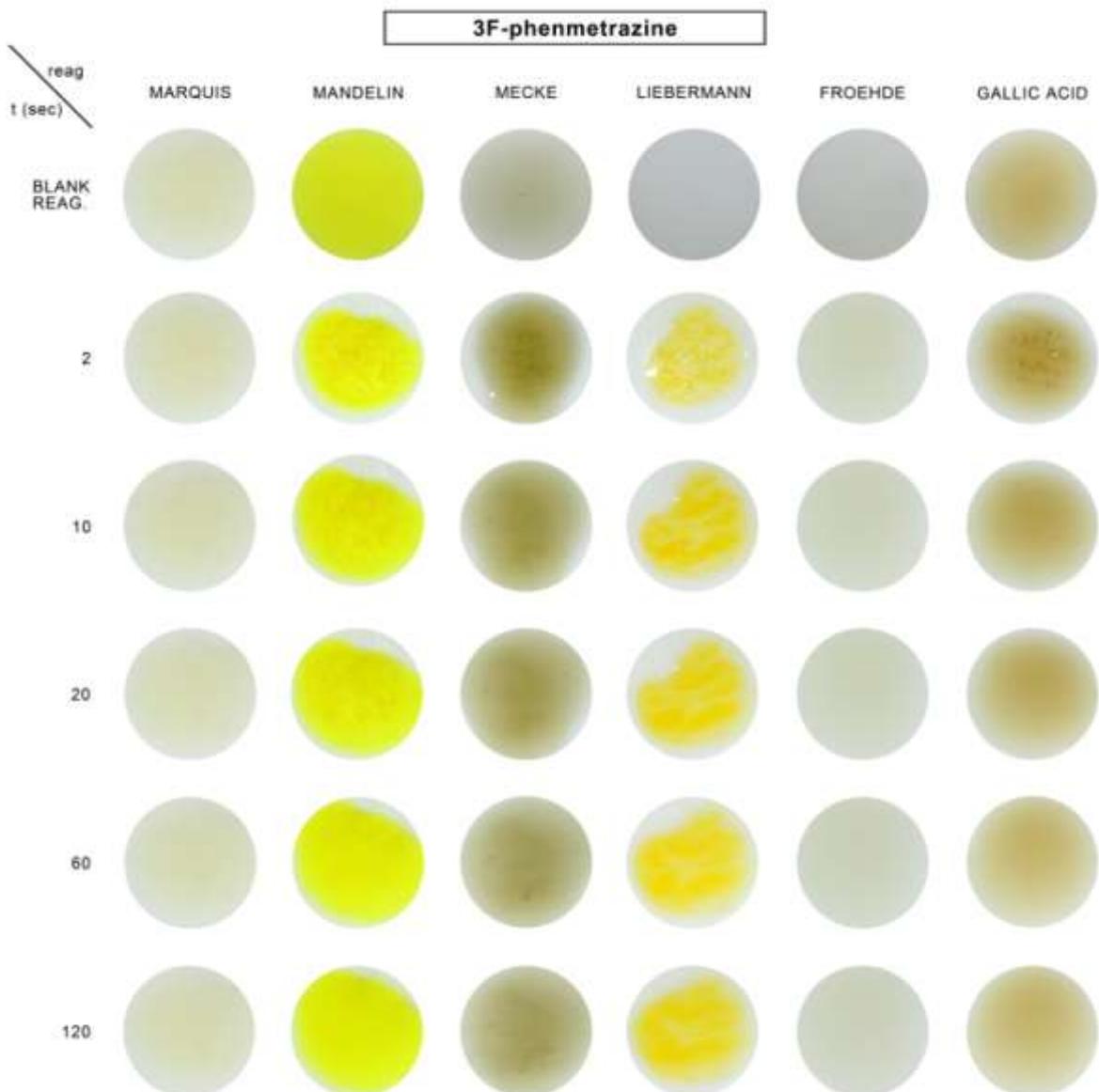
7.1. PRE-084



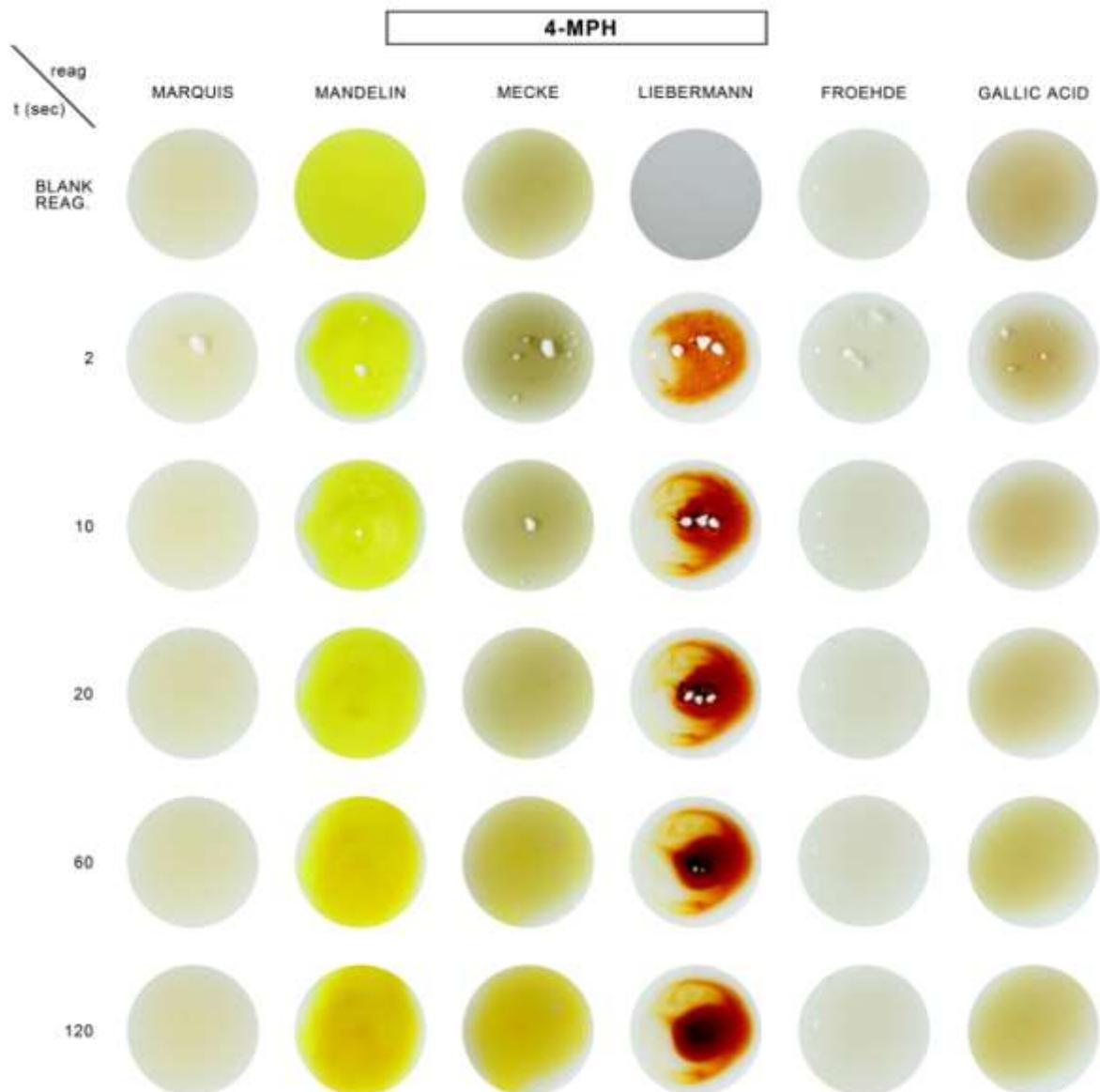
7.2. 1,3-Indanedione



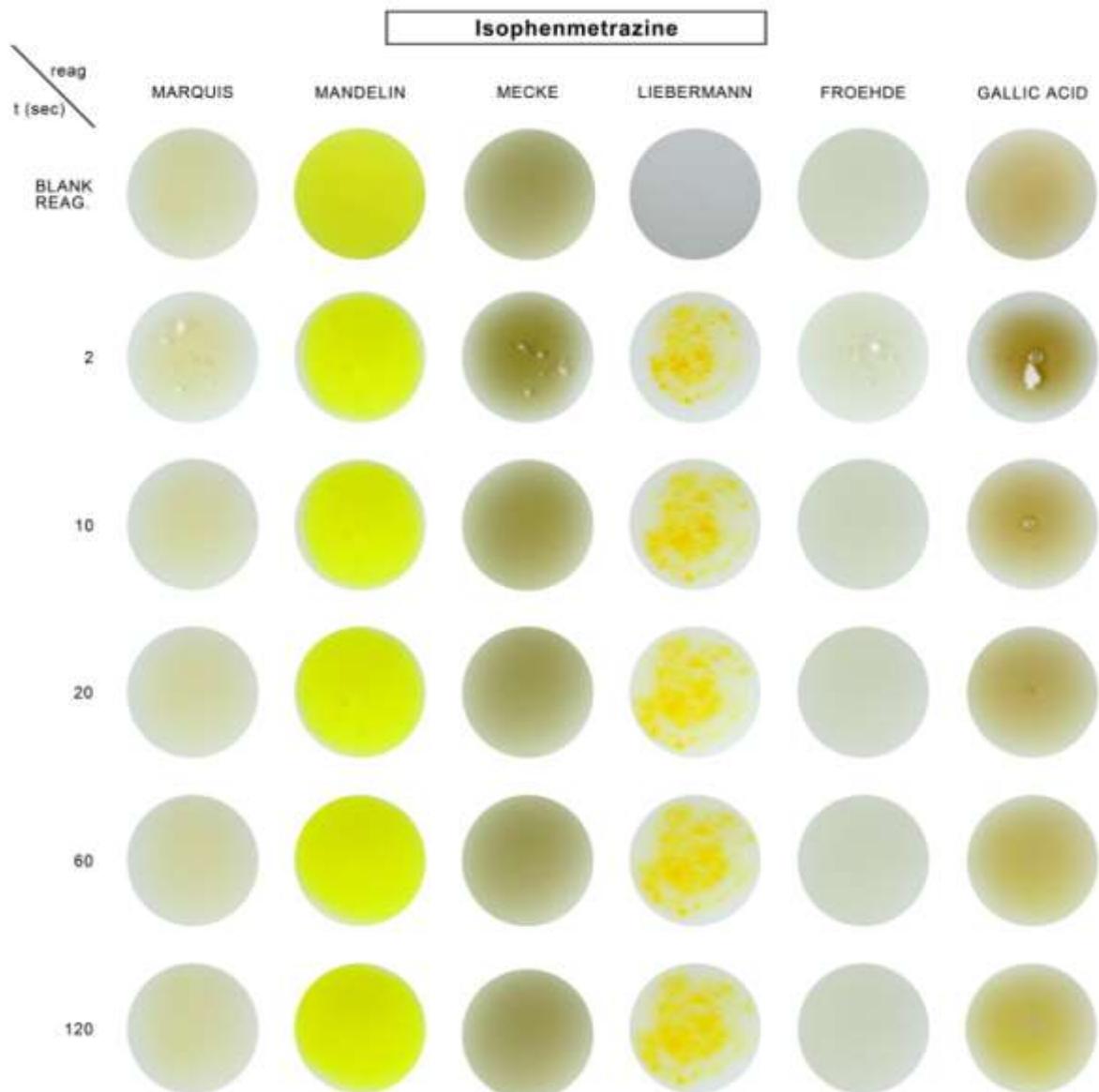
7.3. 3F-phenmetrazine



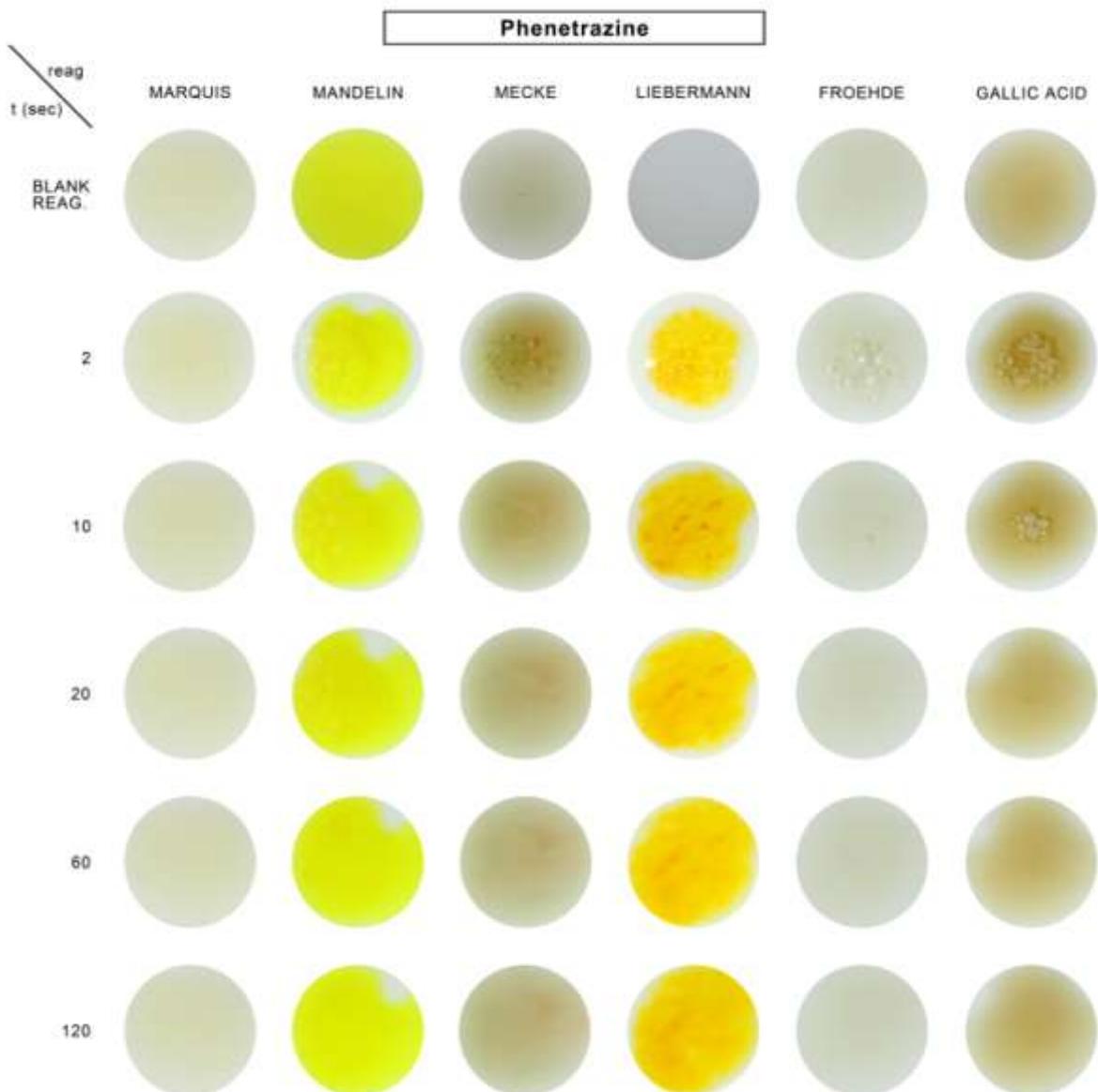
7.4. 4-MPH



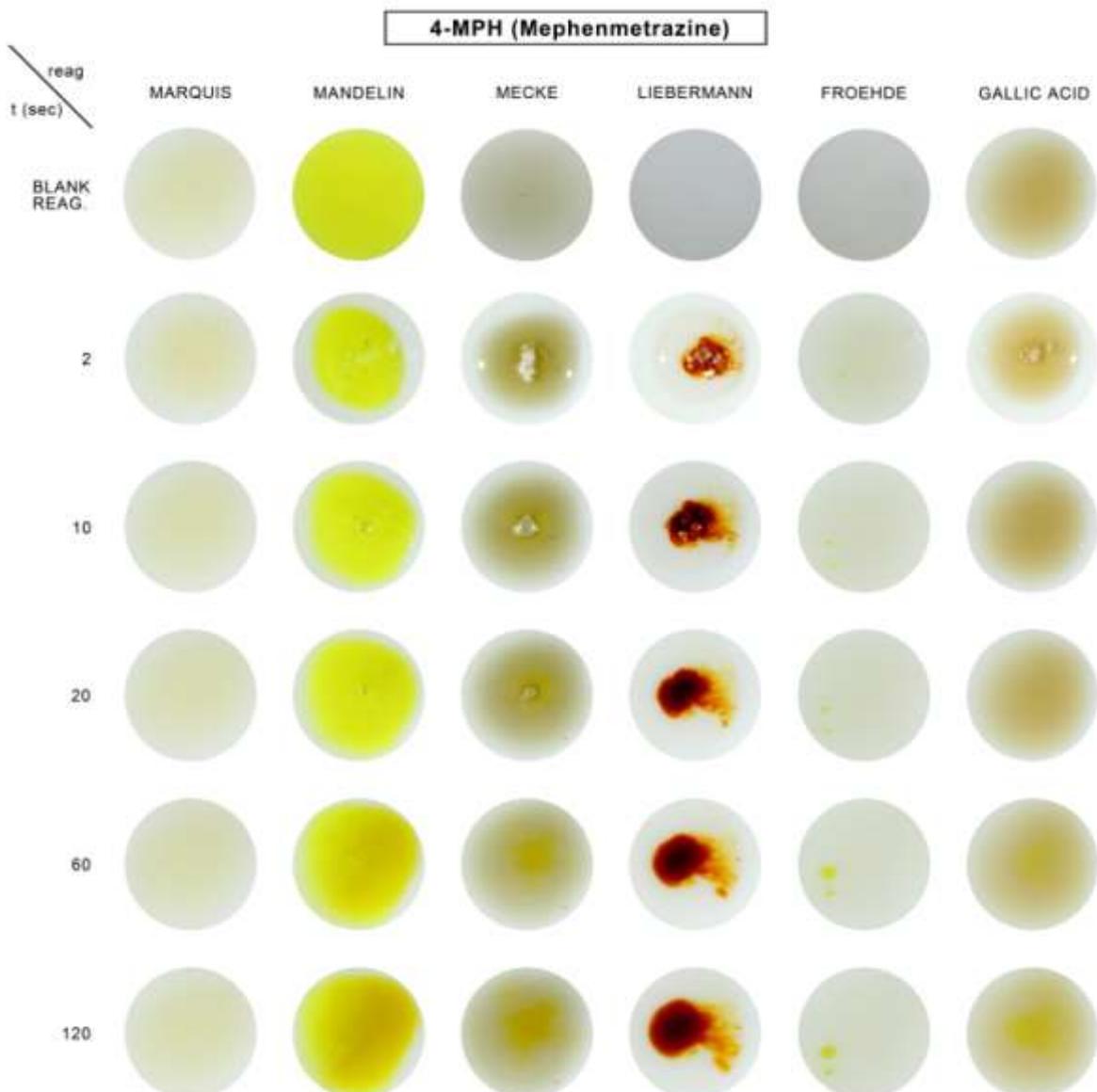
7.5. Isophenmetrazine



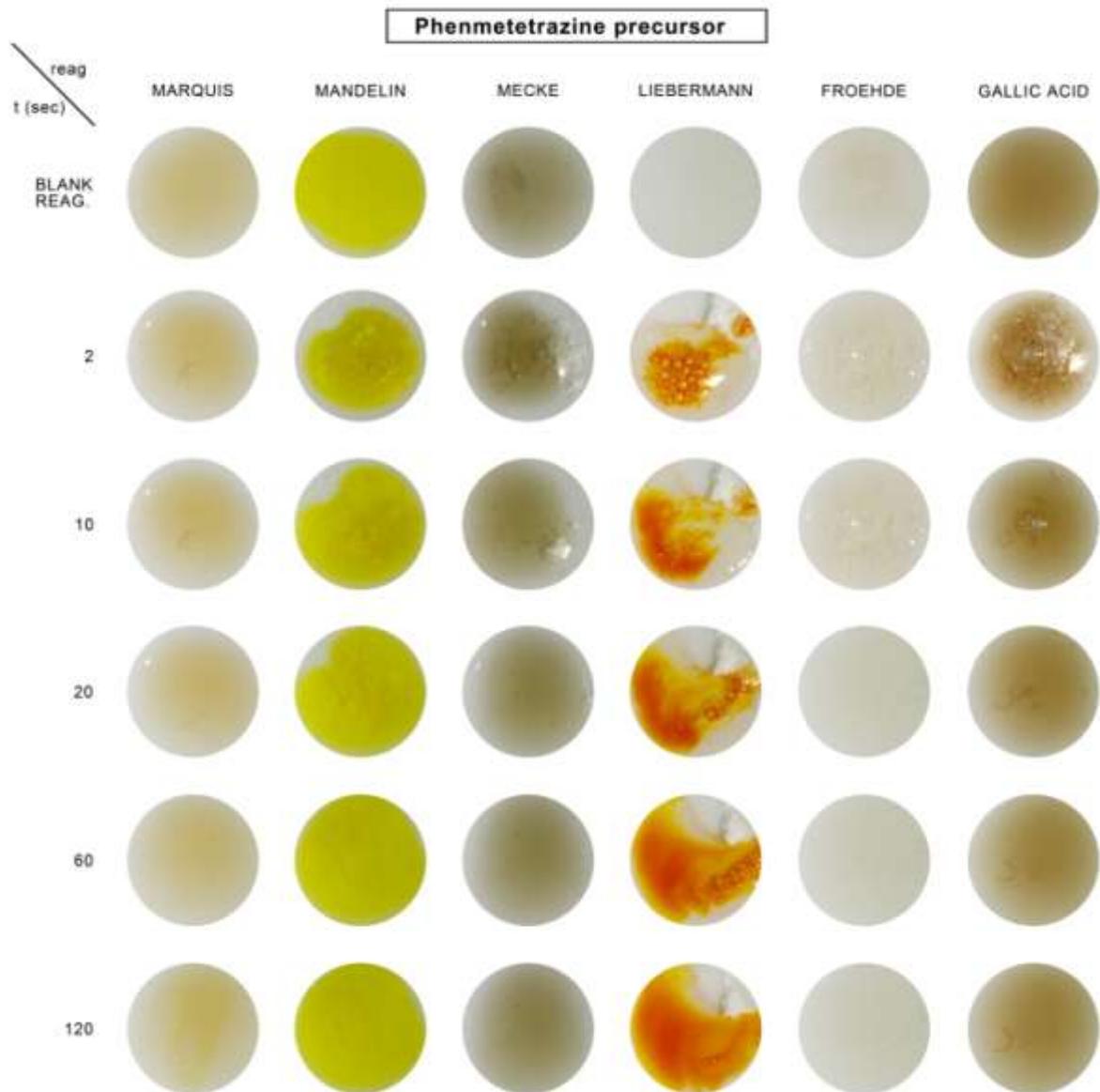
7.6. Phenetrazine



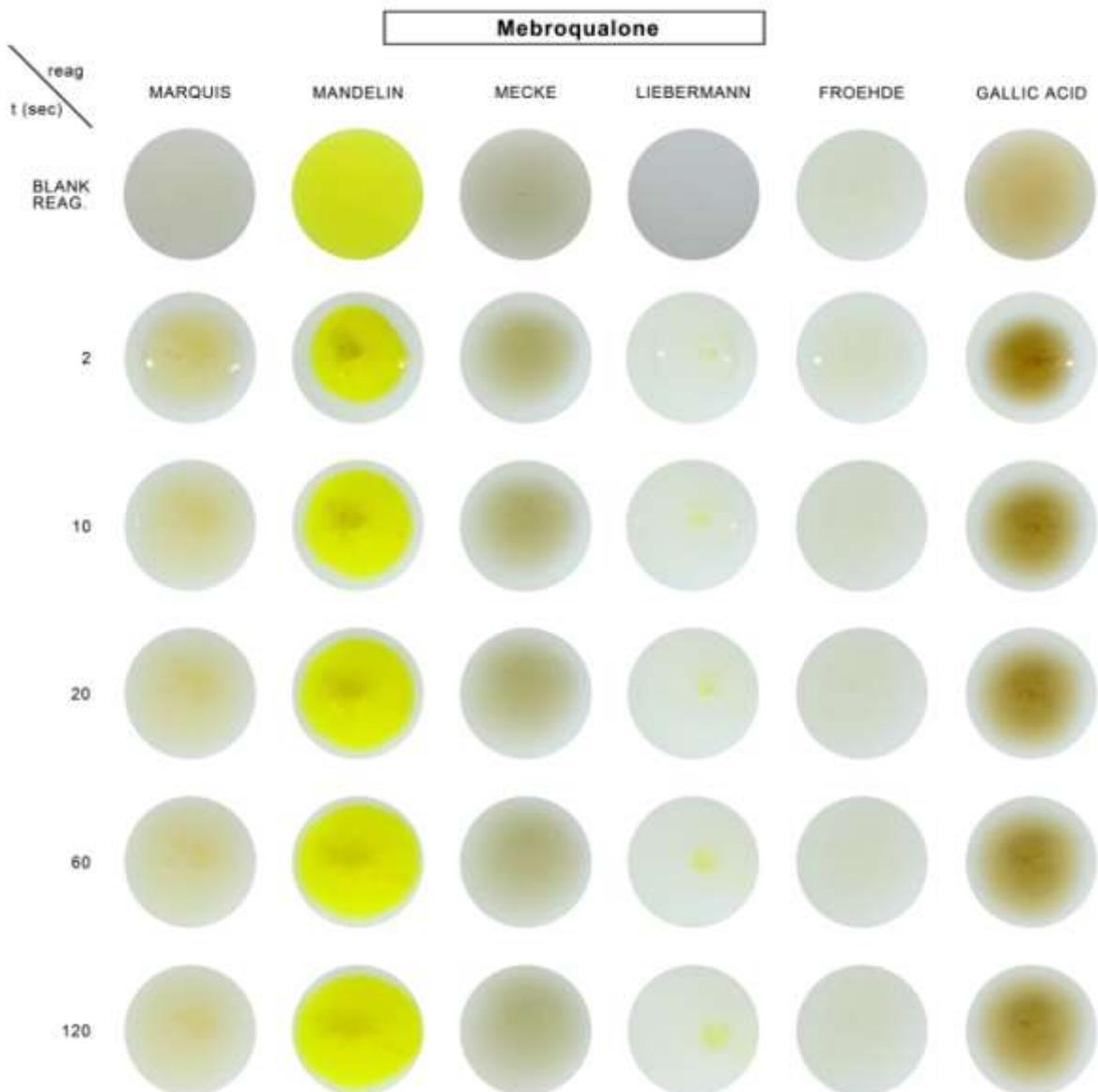
7.7.4-MPH_(Mephennetrazine)



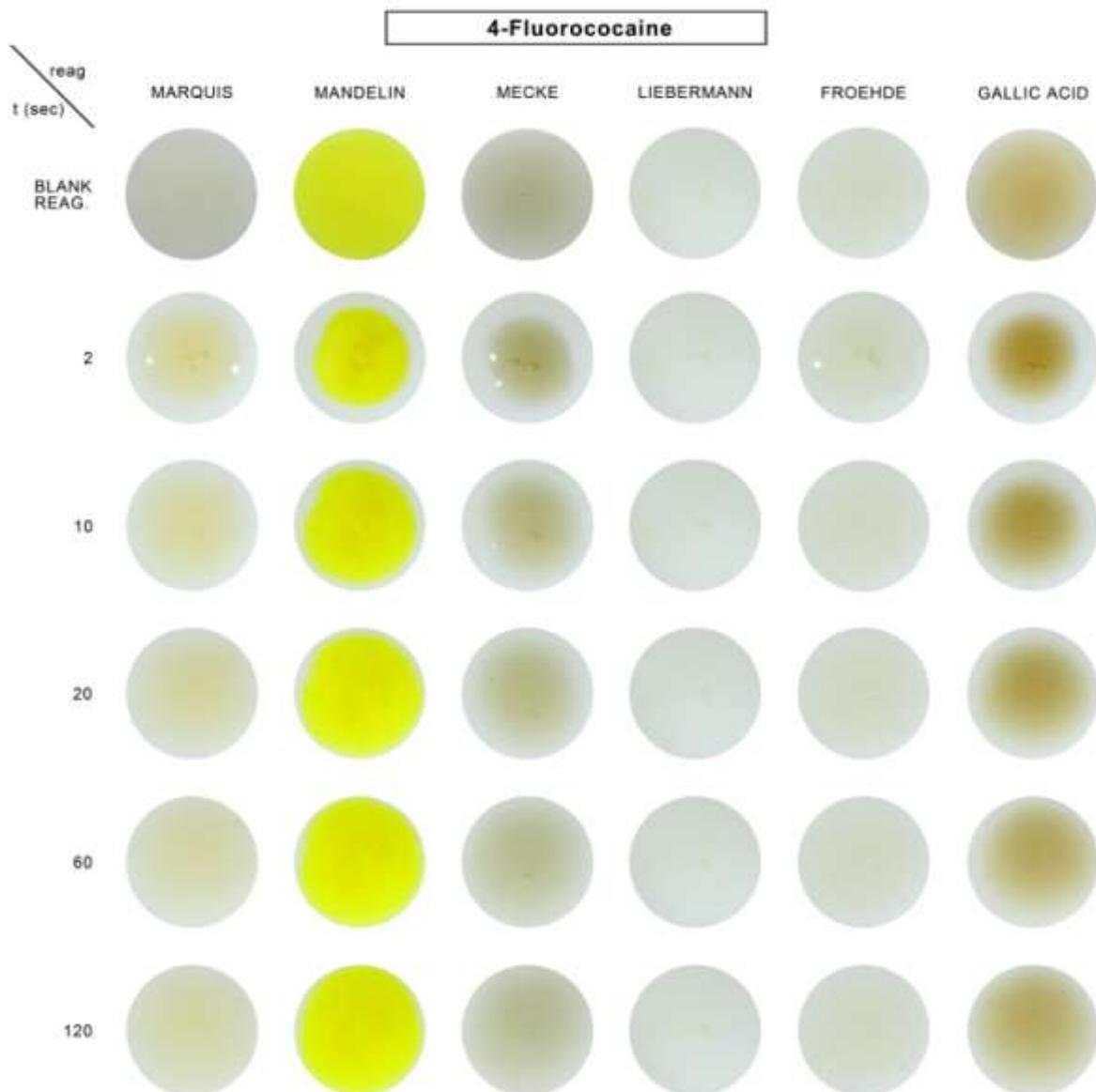
7.8. Phenmetetrazine-precursor



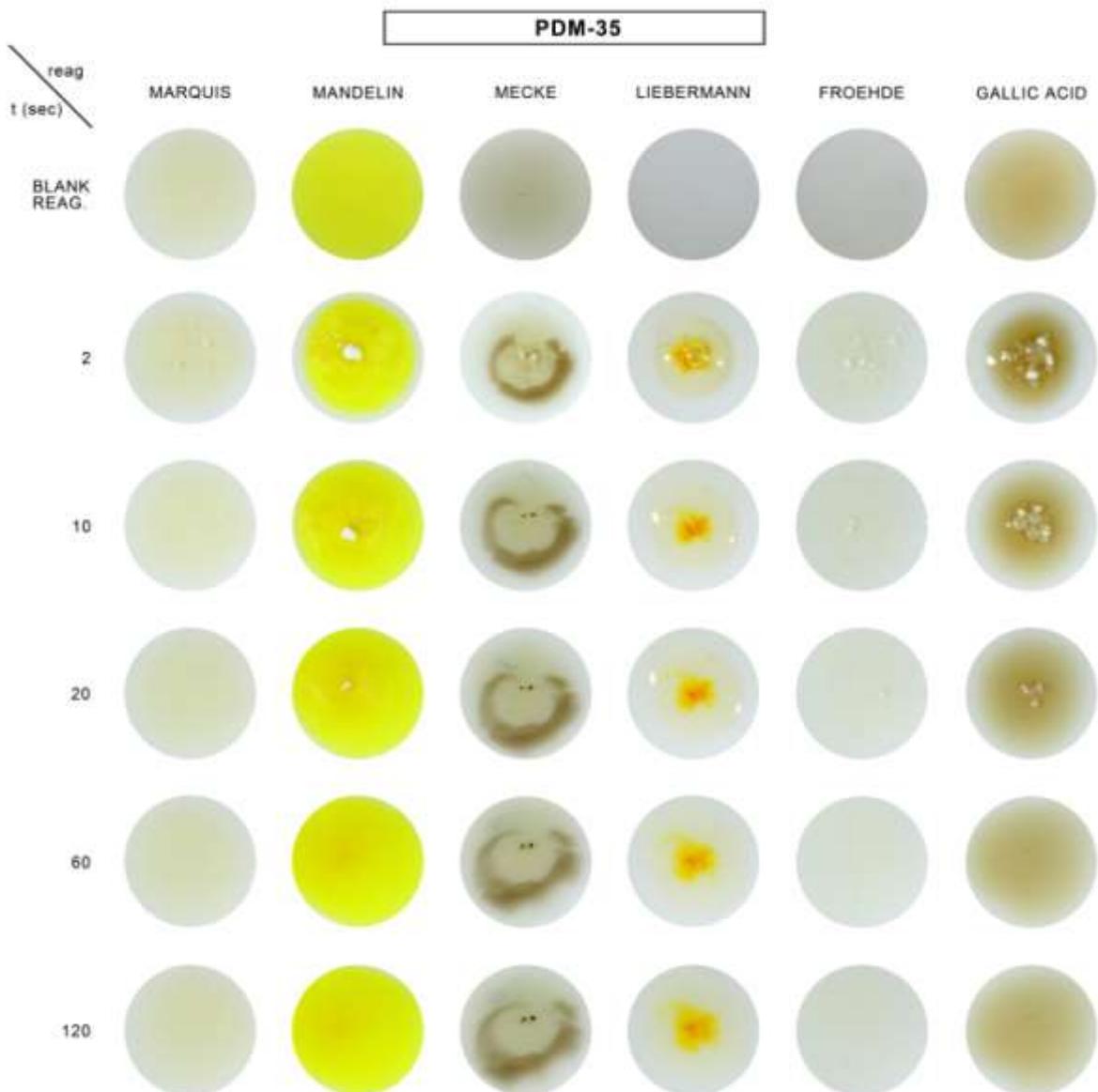
7.9. Mebroqualone



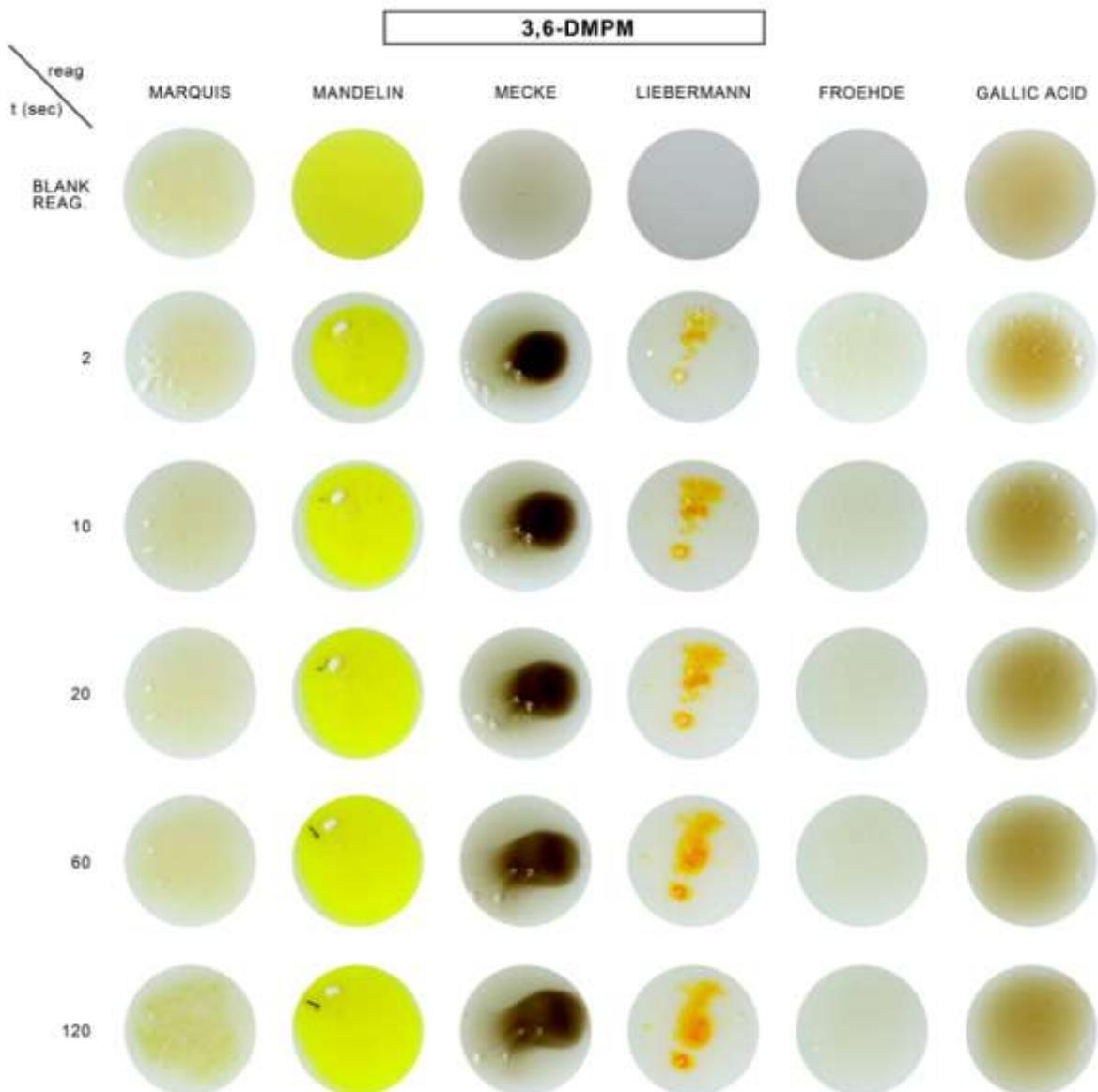
7.10. 4-Fluorococaine



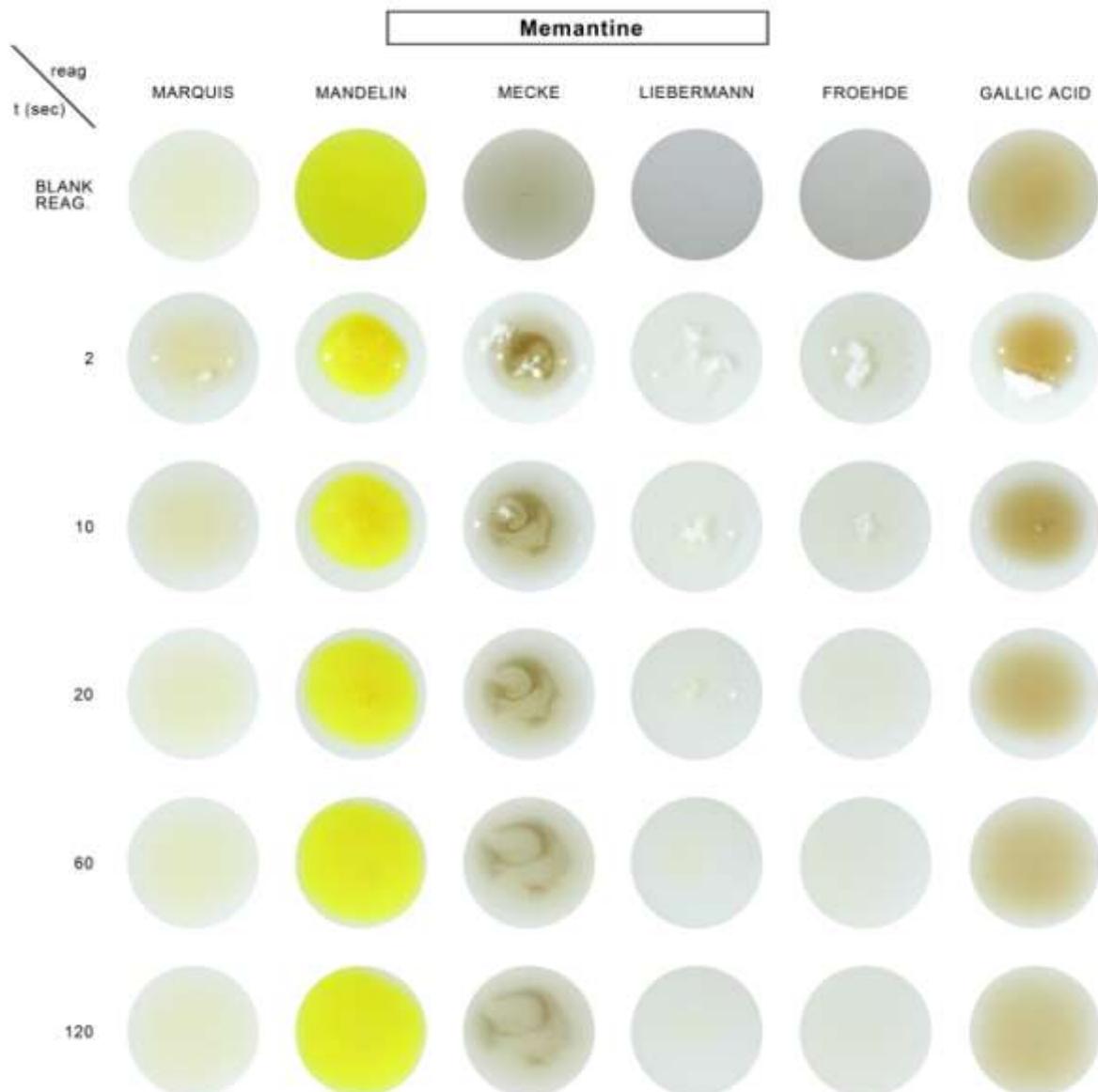
7.11. PDM-35



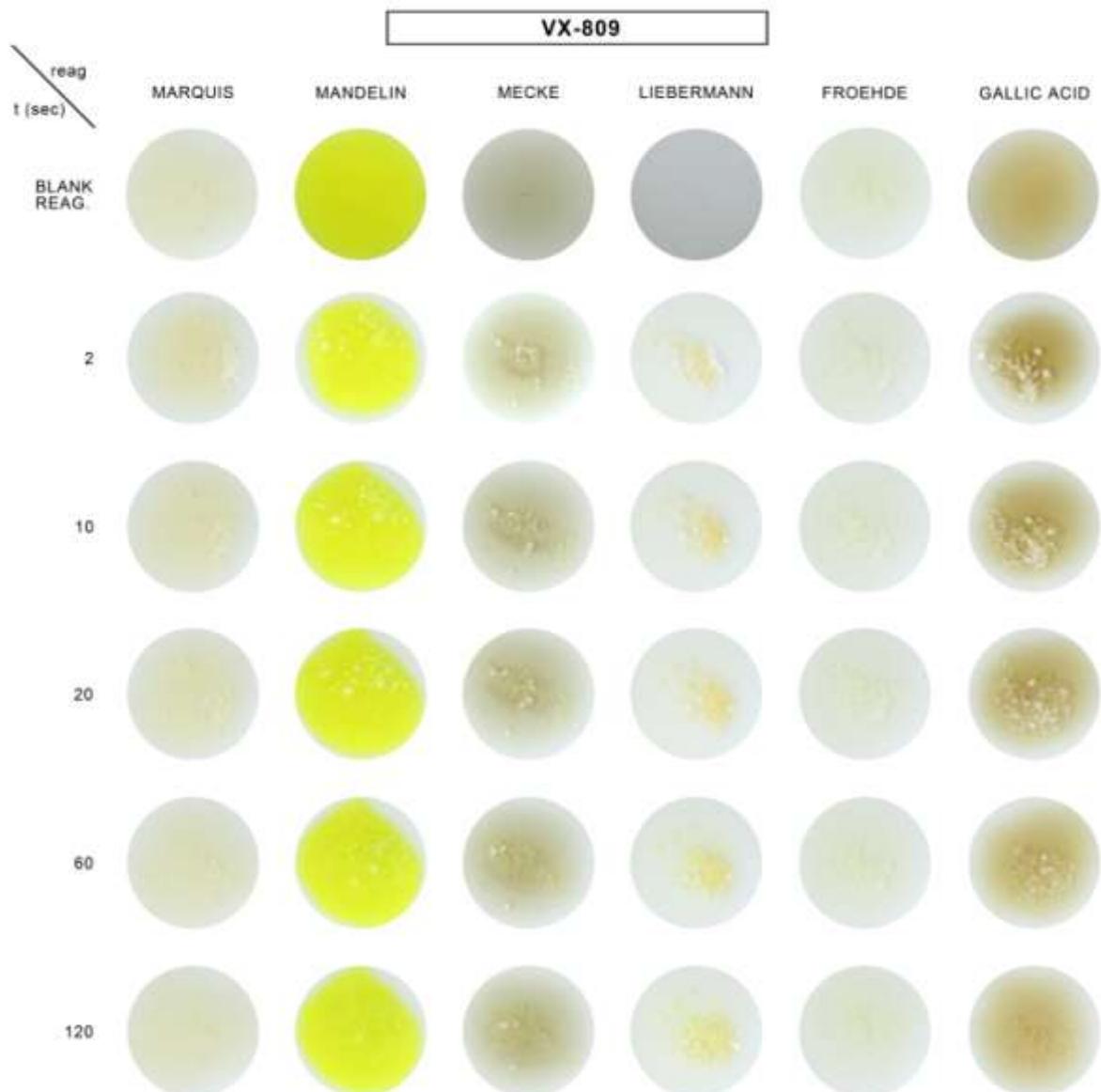
7.12. 3,6-DMPM



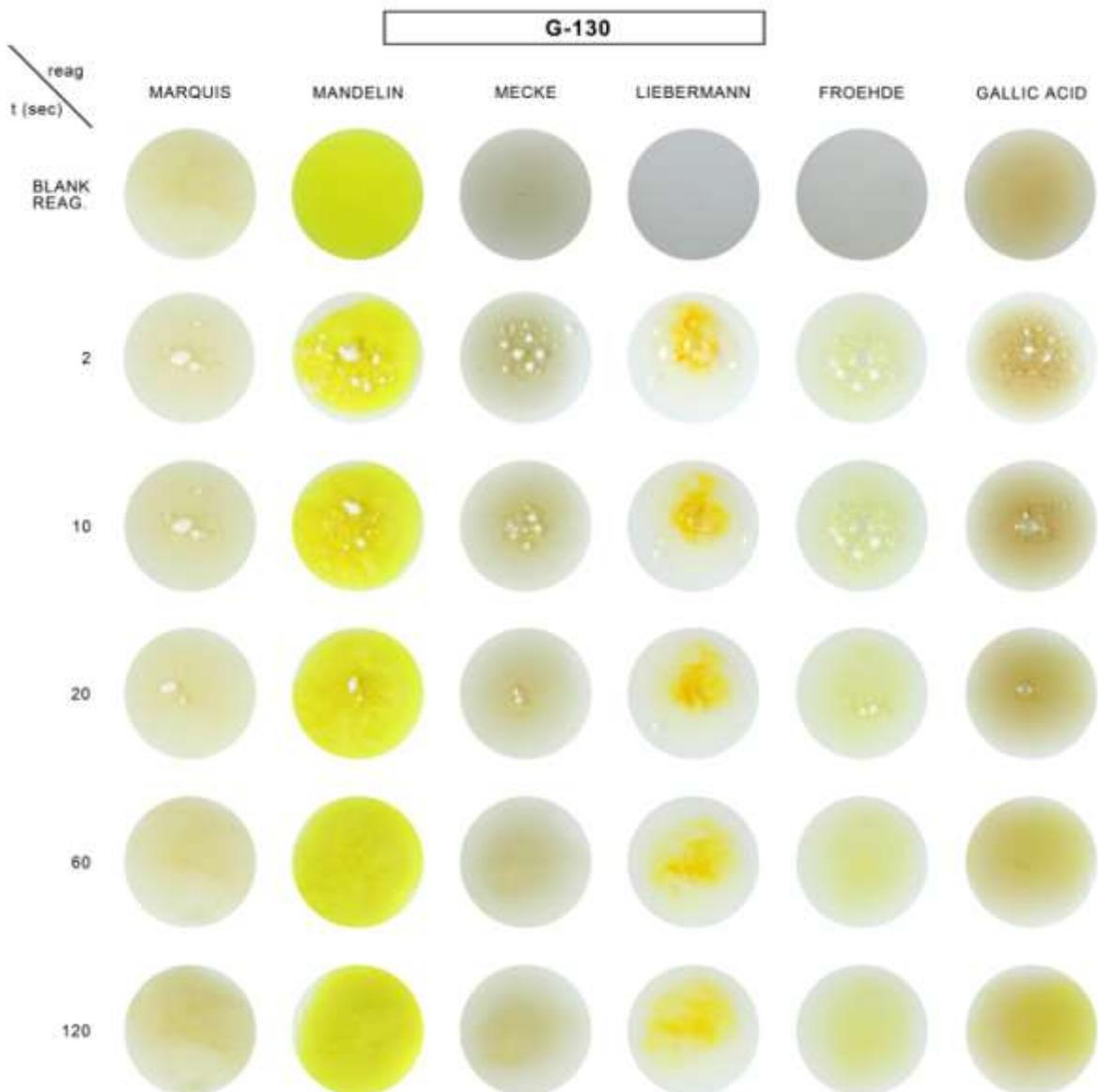
7.13. Memantine



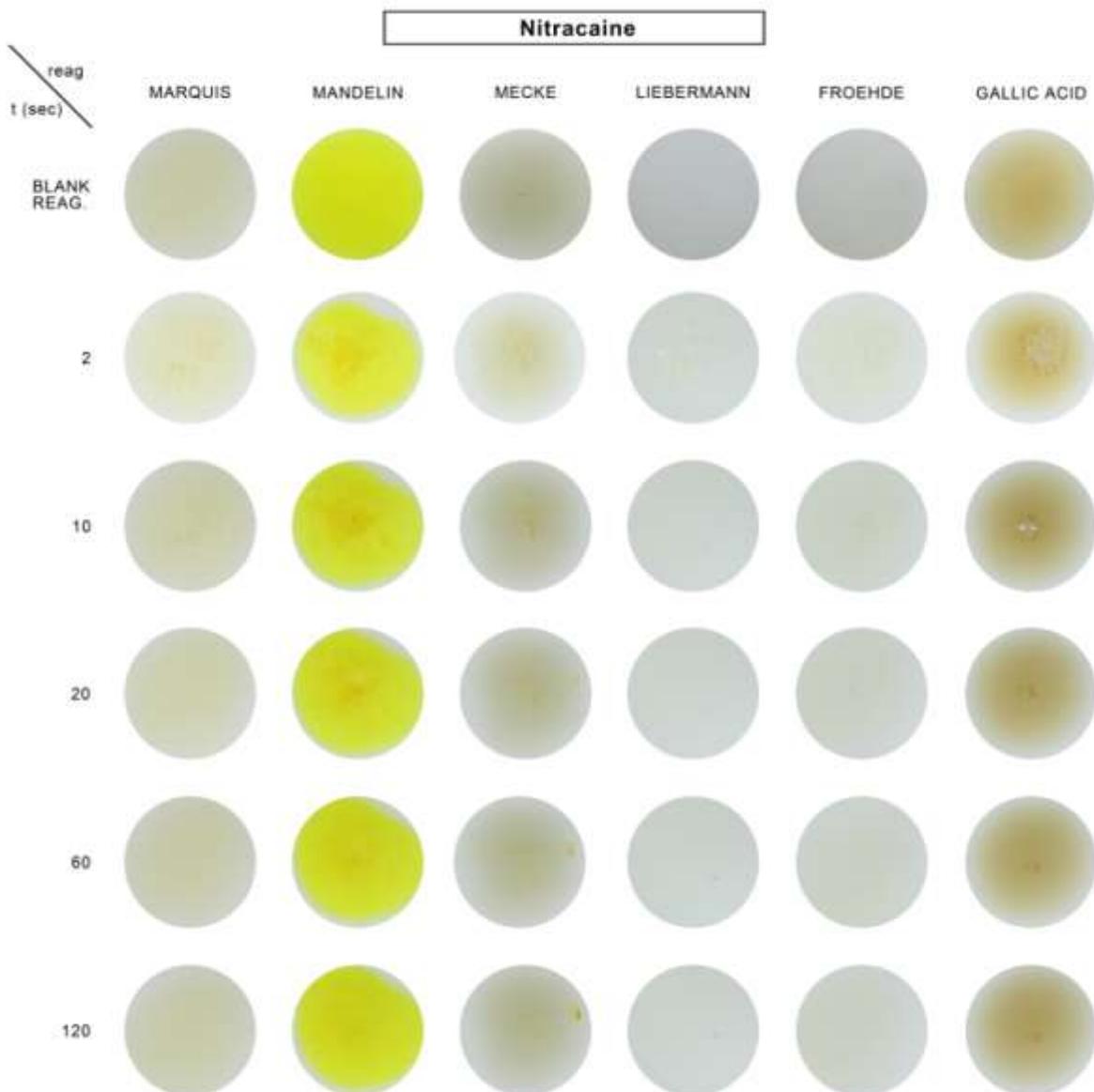
7.14. VX-809



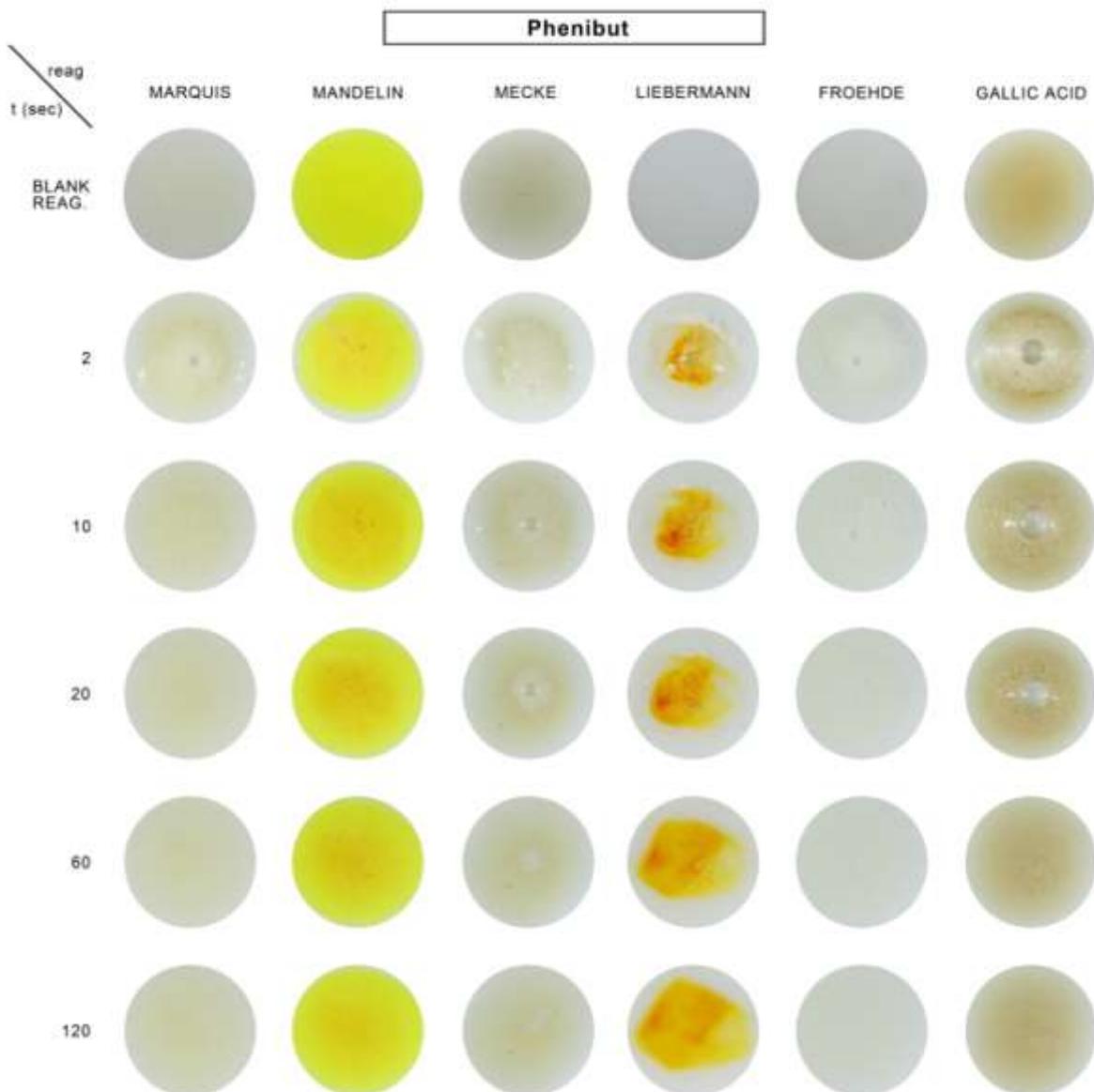
7.15. G-130



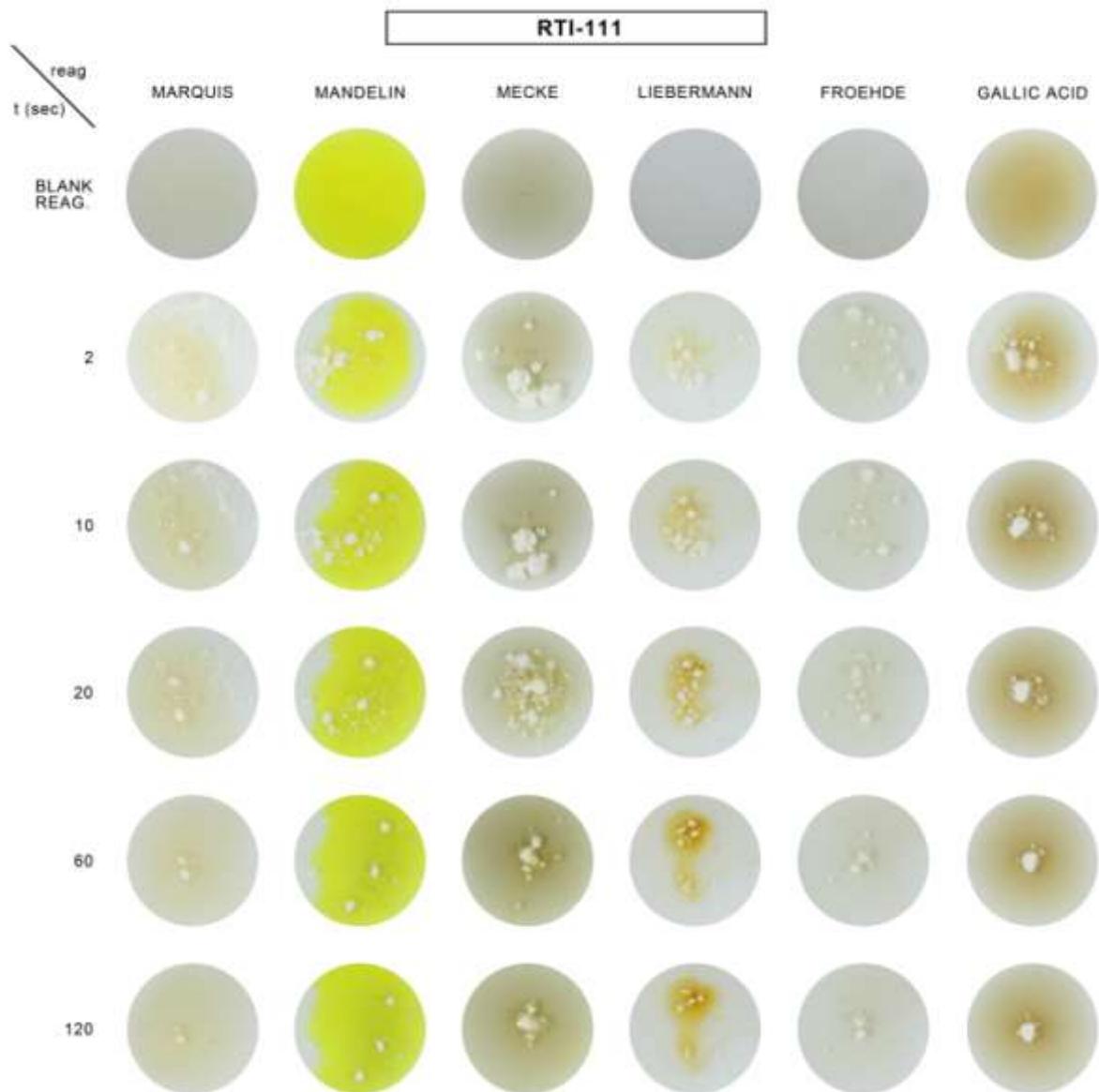
7.16. Nitracaine



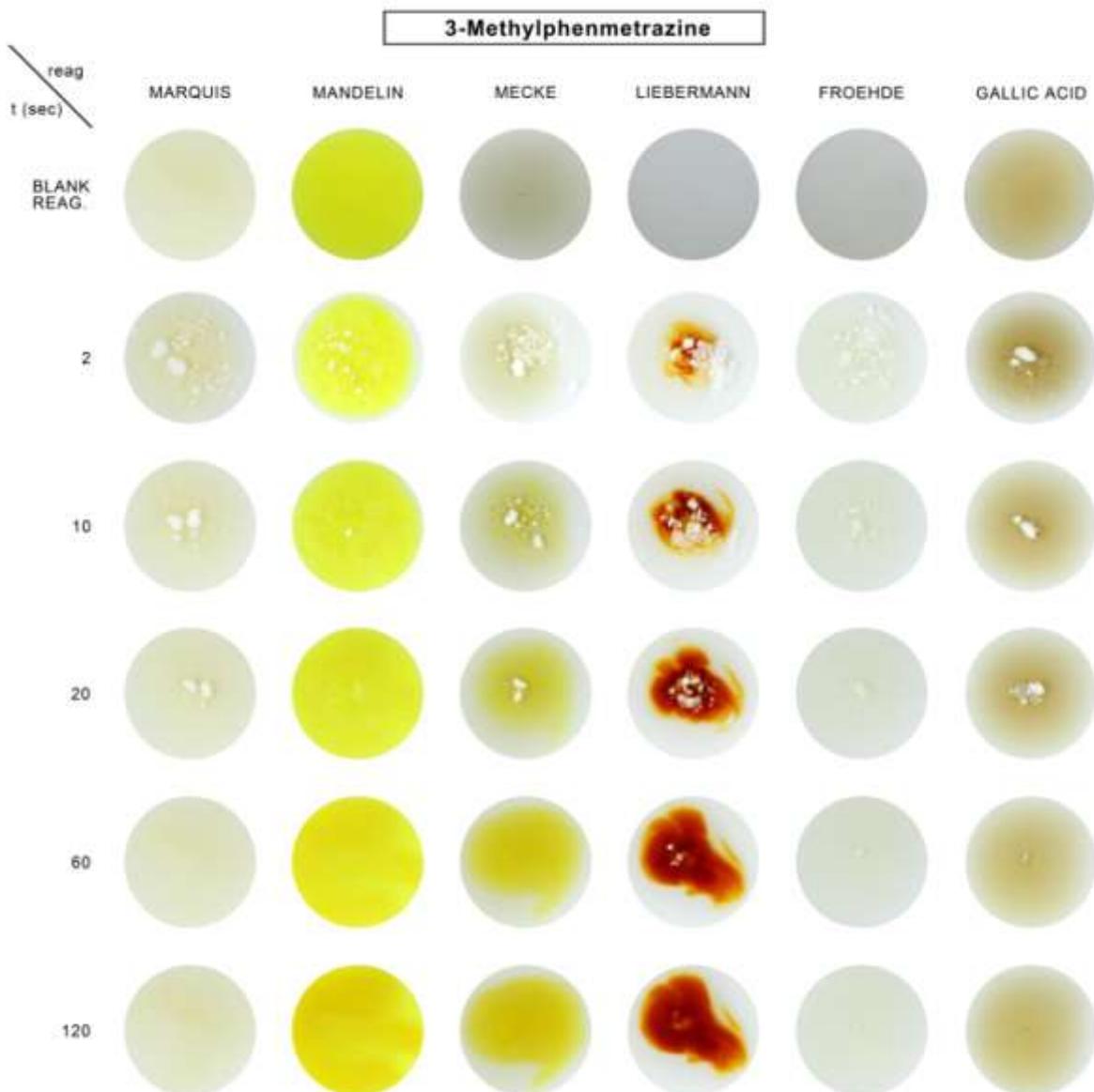
7.17. Phenibut



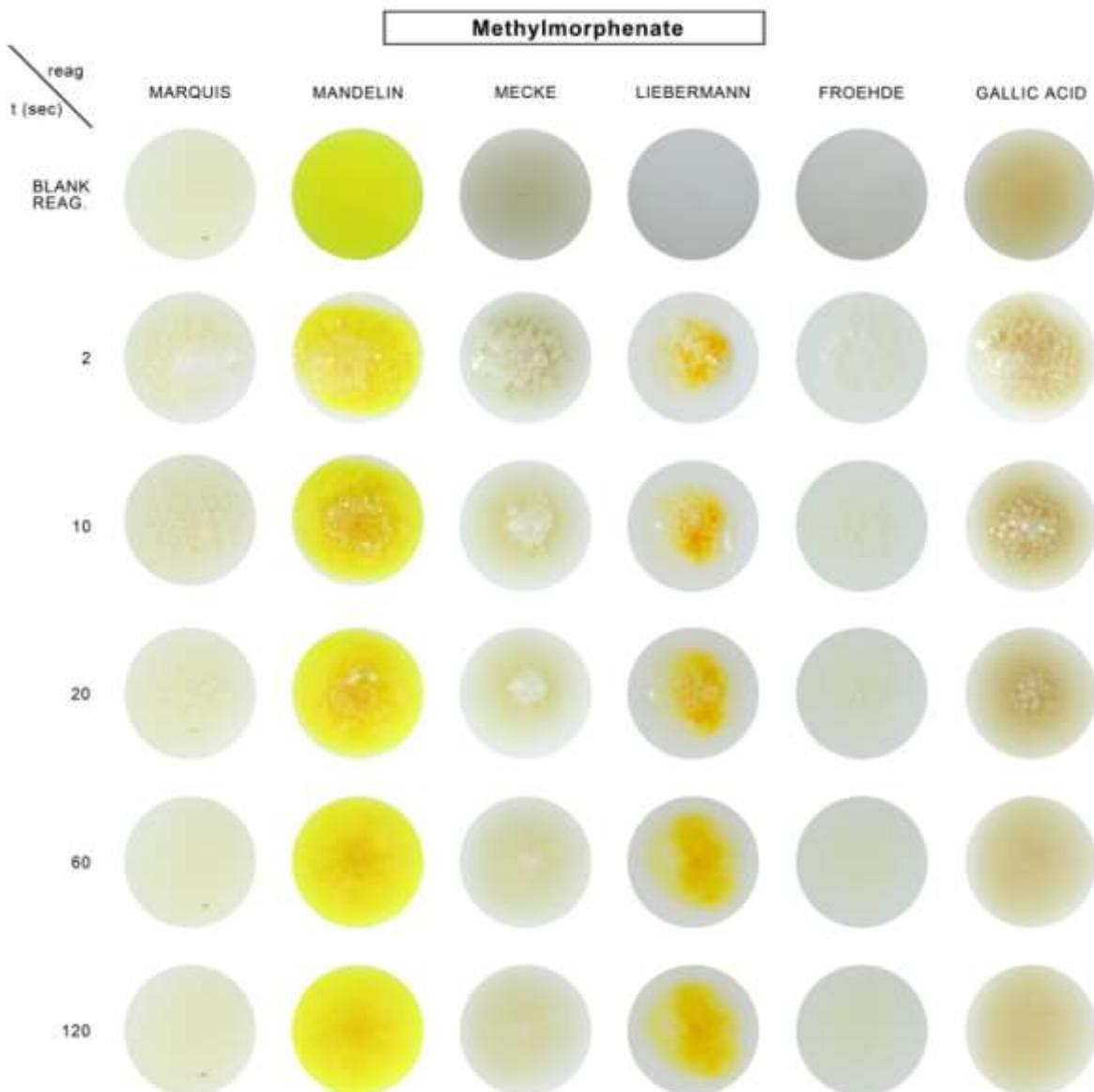
7.18. RTI-111



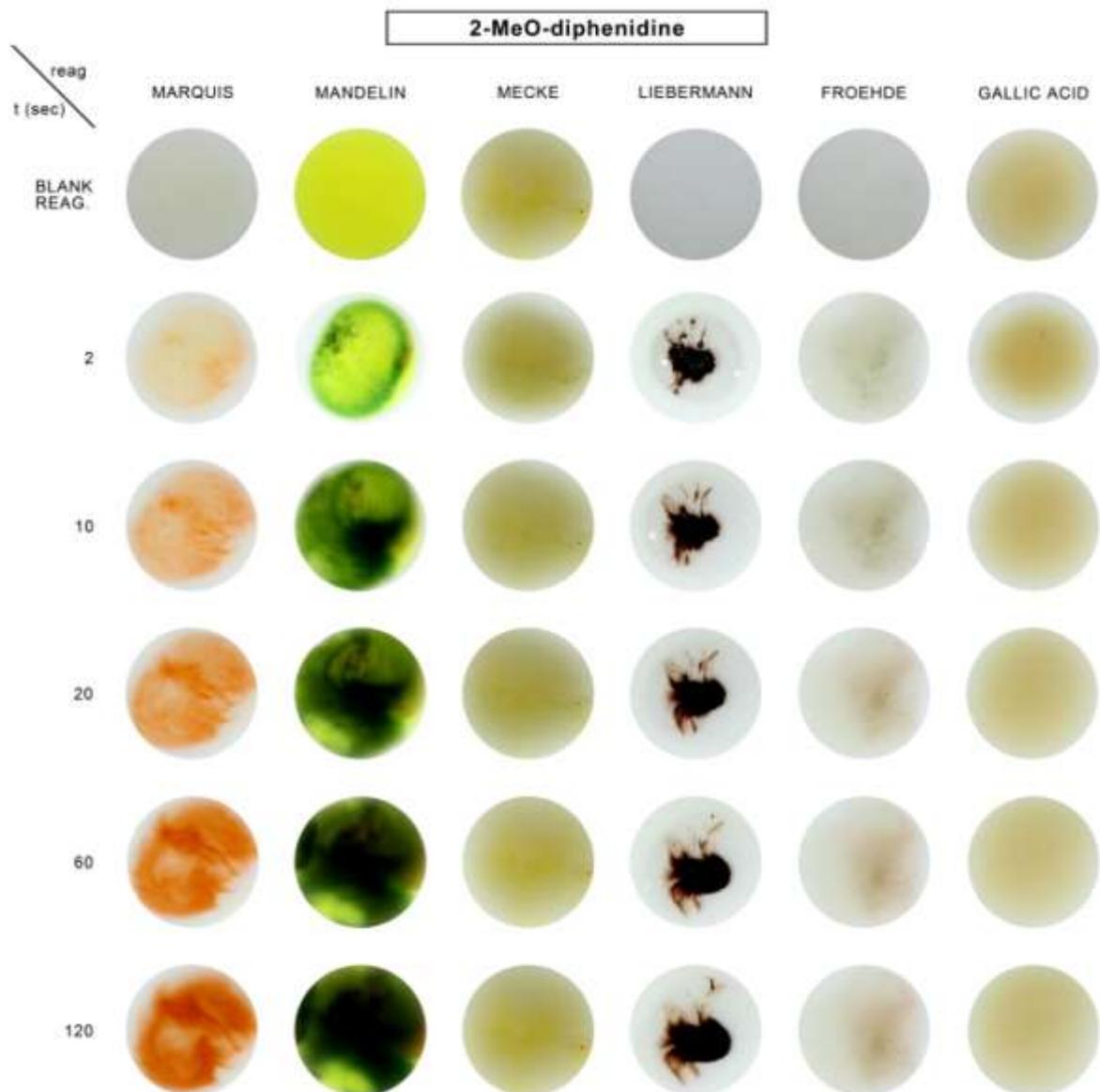
7.19. 3-Methylphenmetrazine



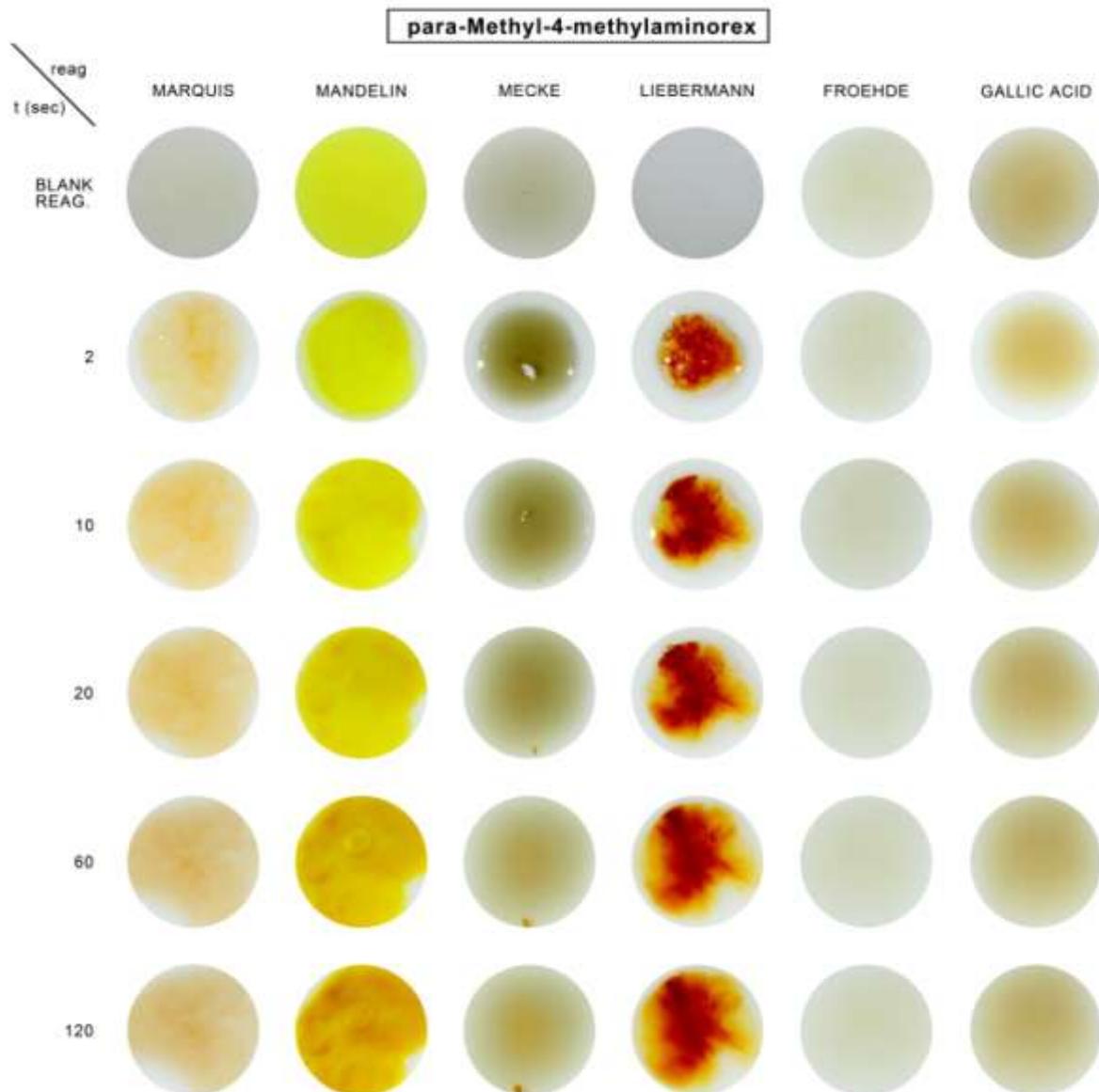
7.20. Methylmorphenate



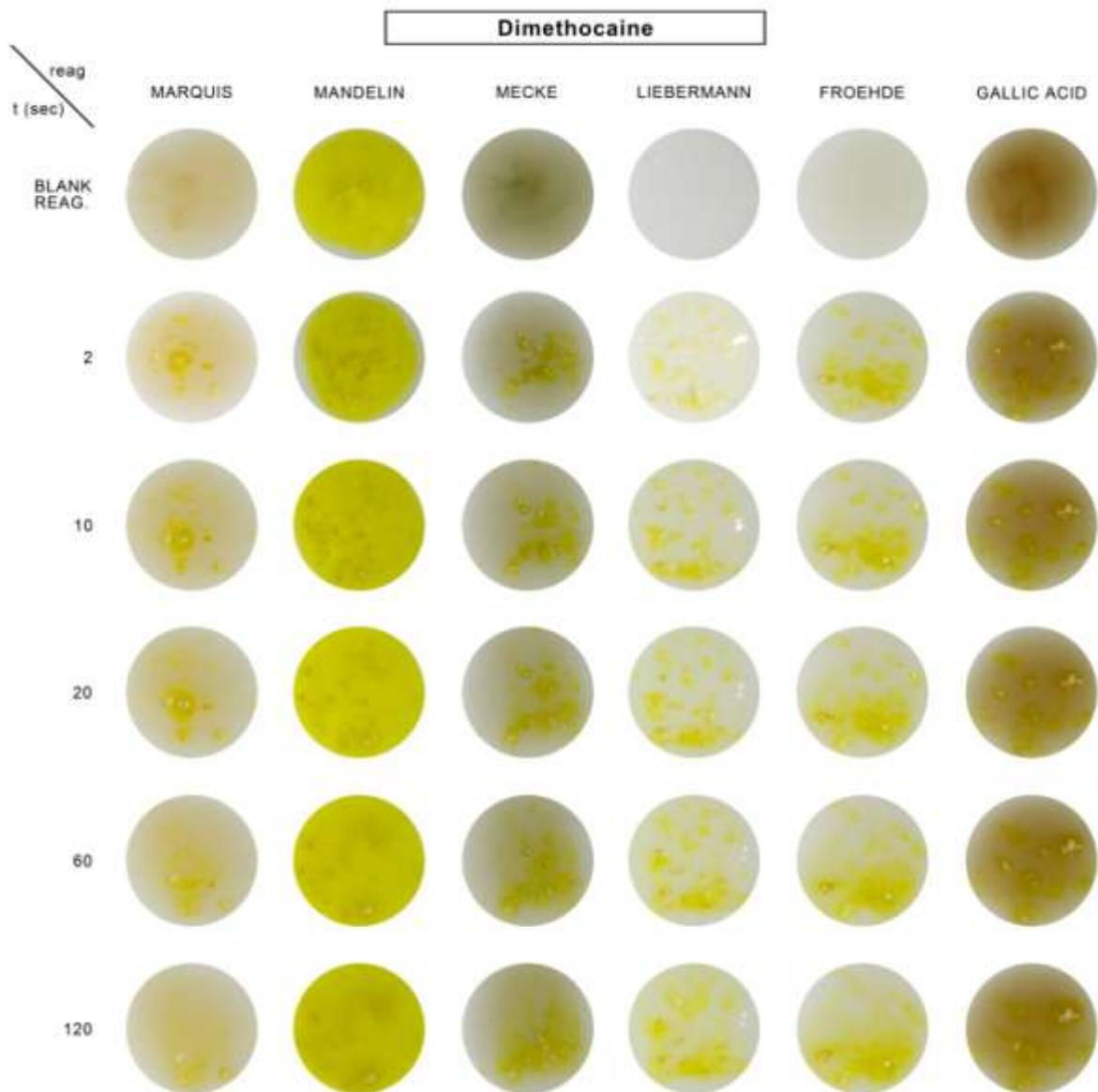
7.21. 2-MeO-diphenidine



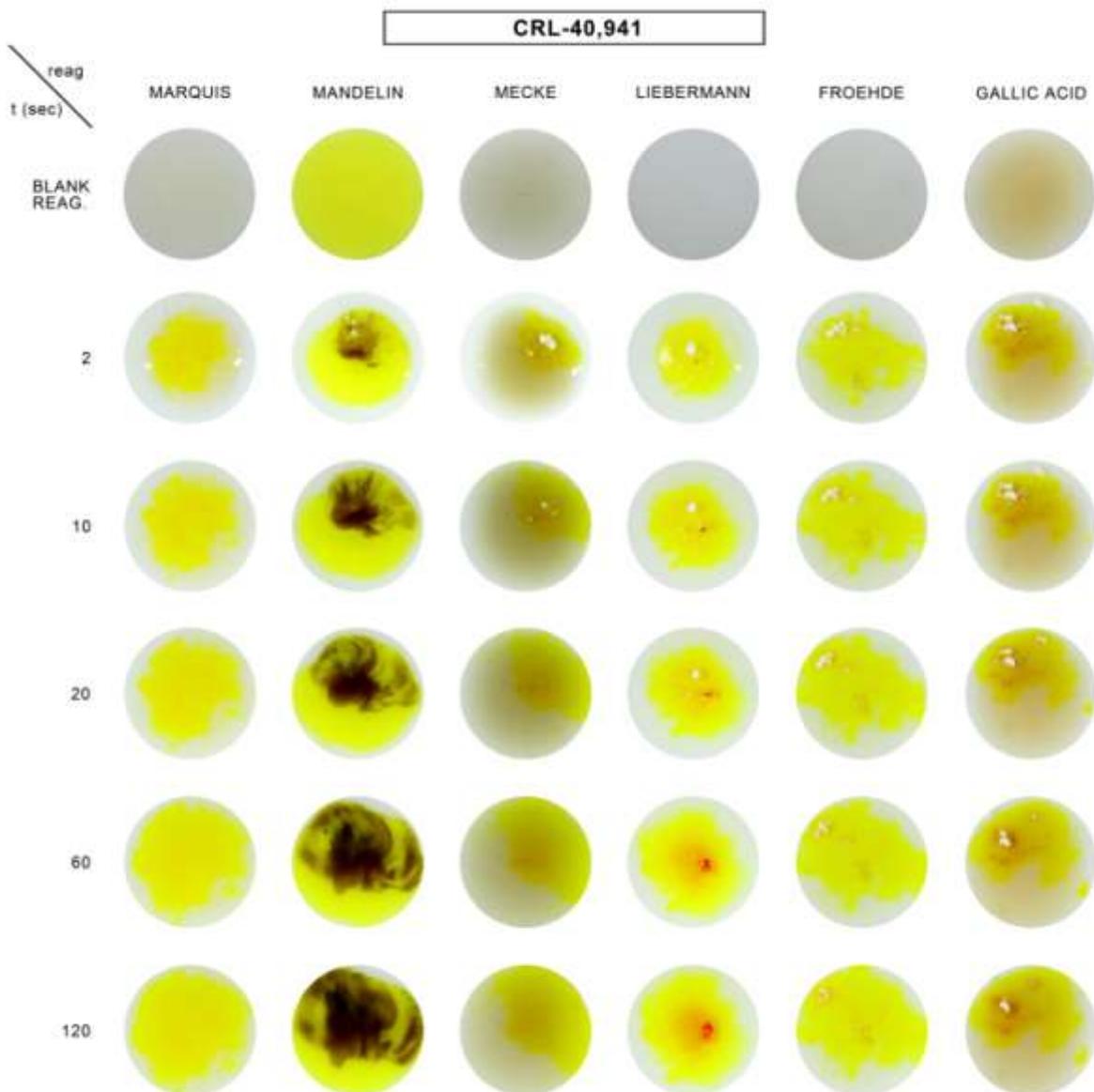
7.22. para-Methyl-4-methylaminorex



7.23. Dimethocaine

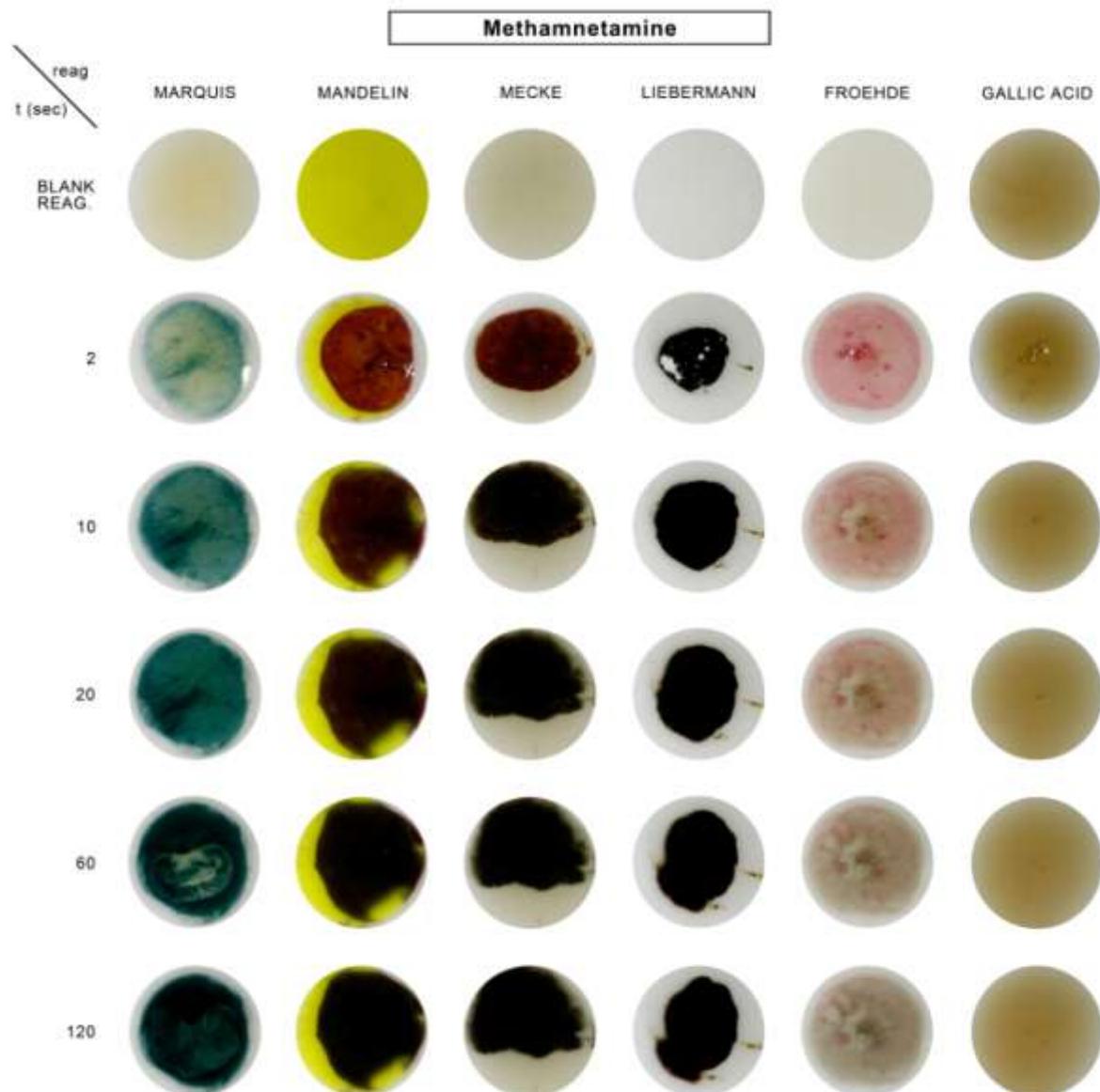


7.24. CRL-40,941

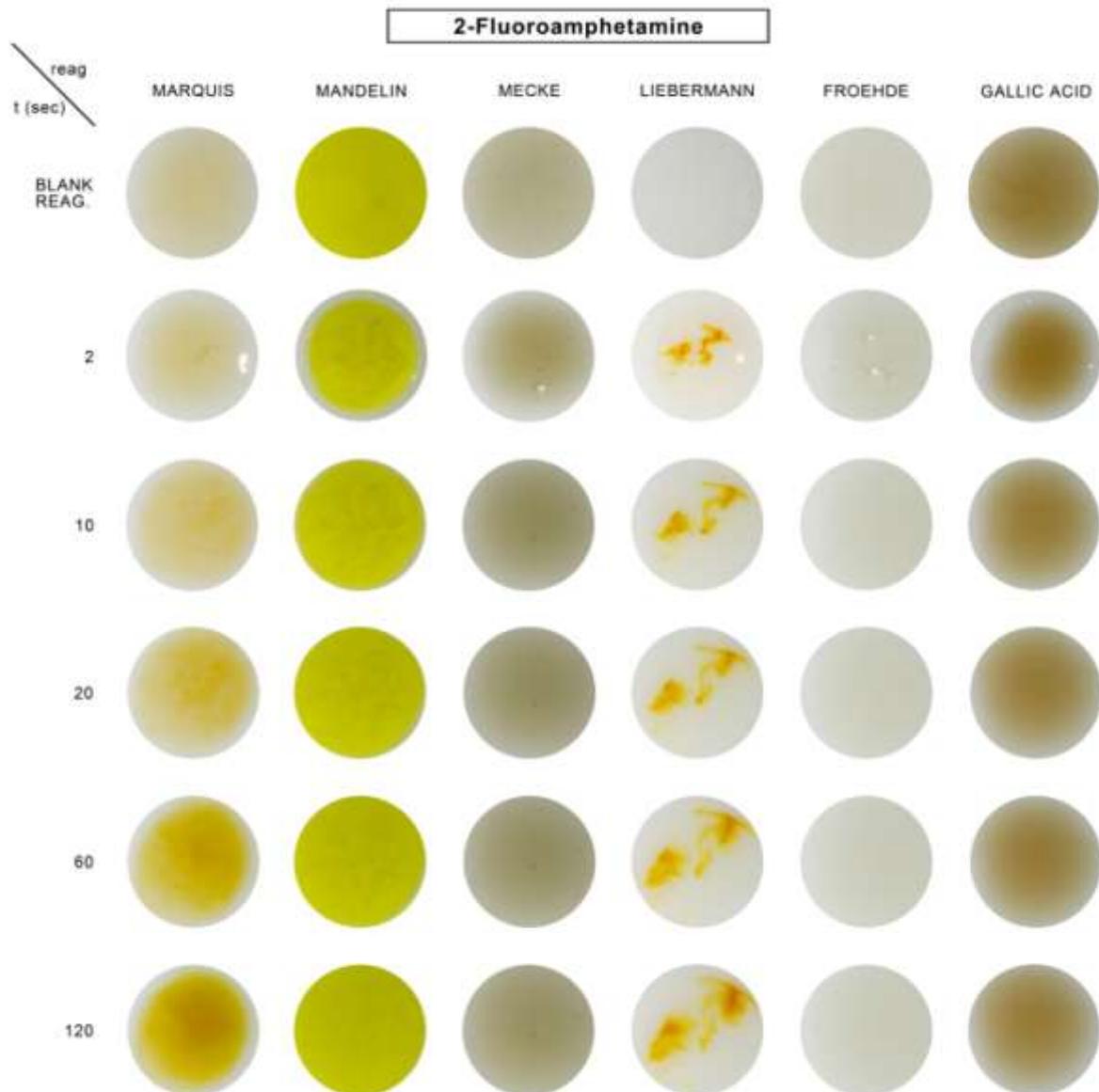


8. Phenethylamines

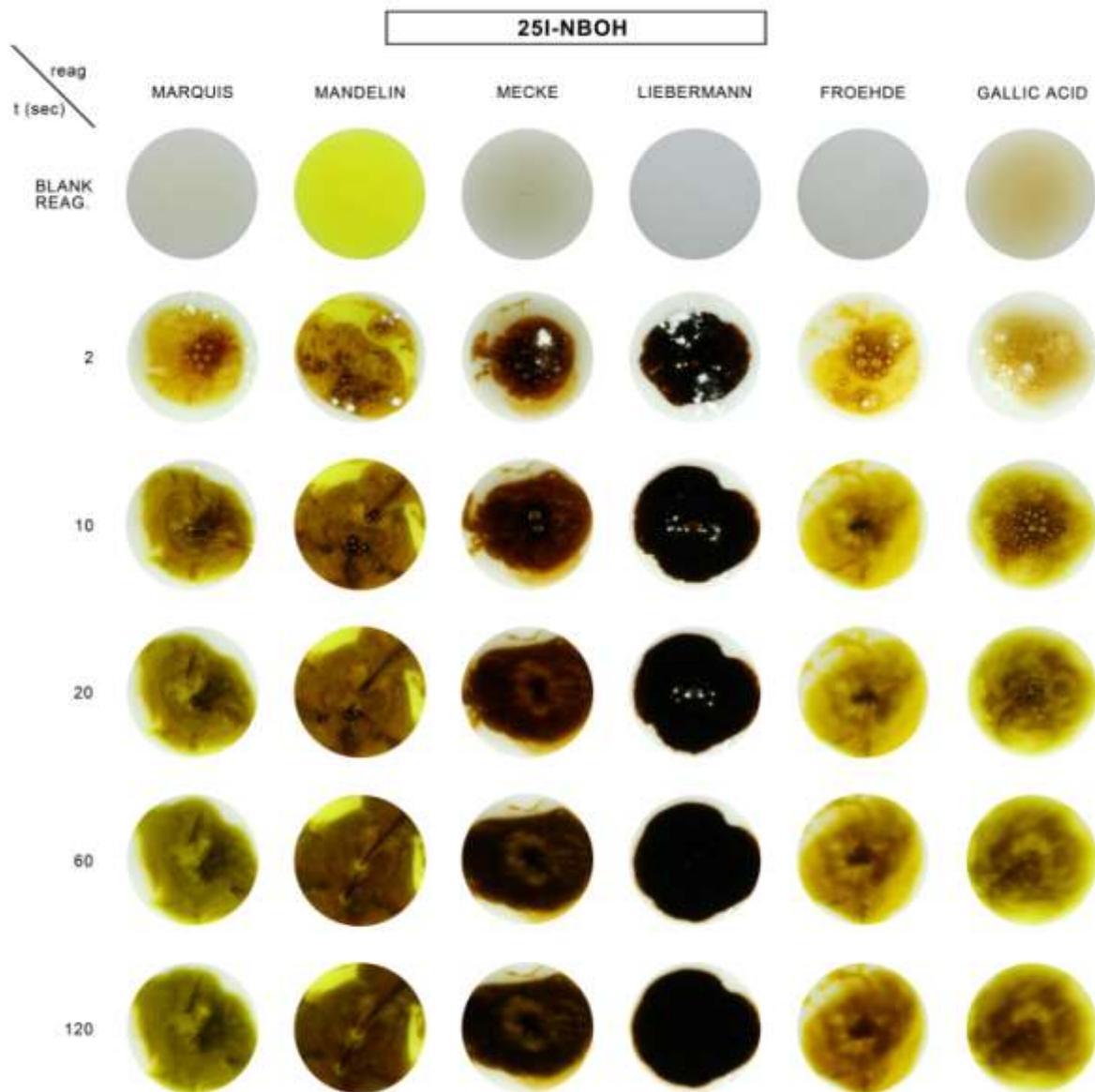
8.1. Methamnetamine



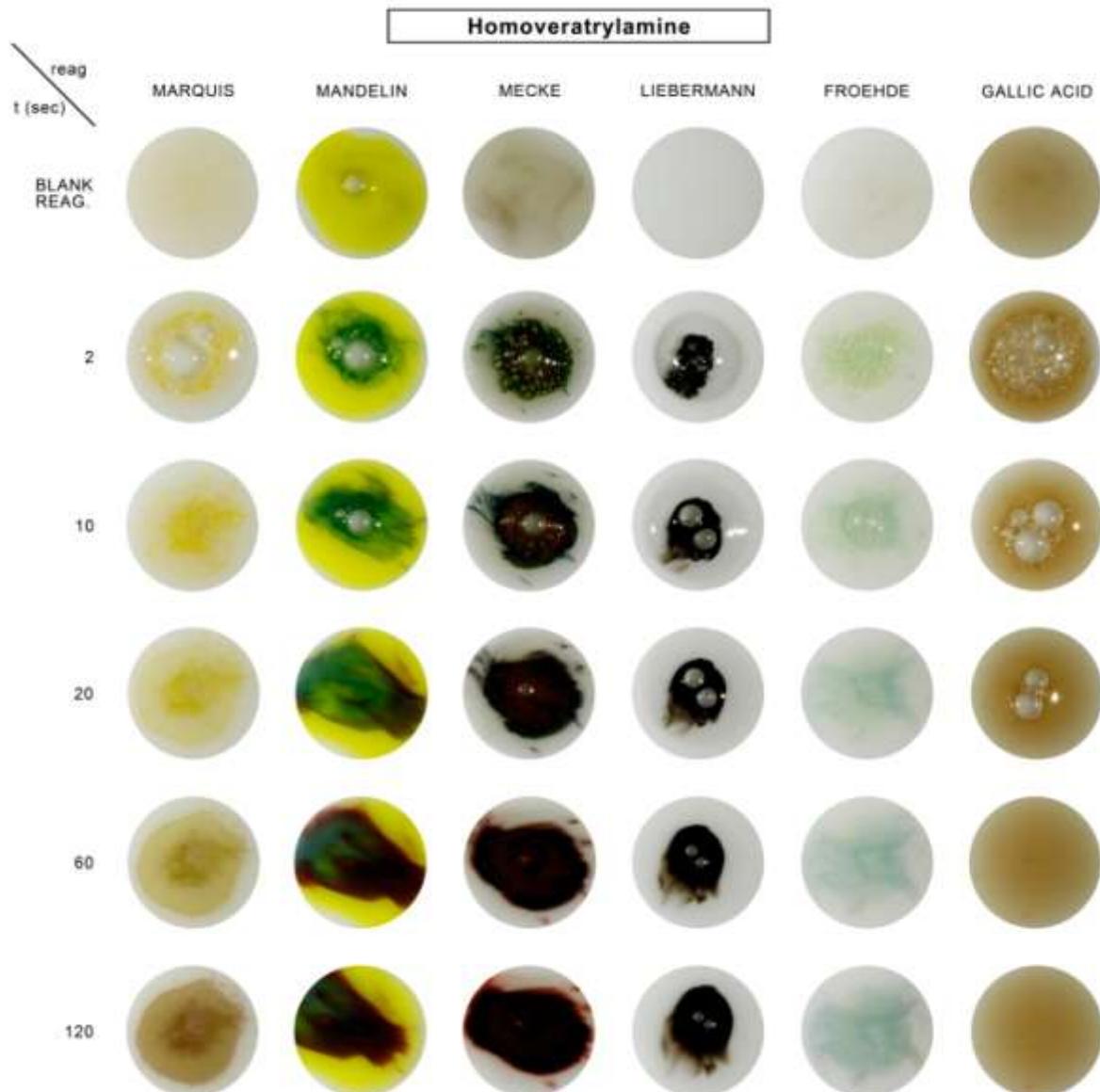
8.2. 2-Fluoroamphetamine



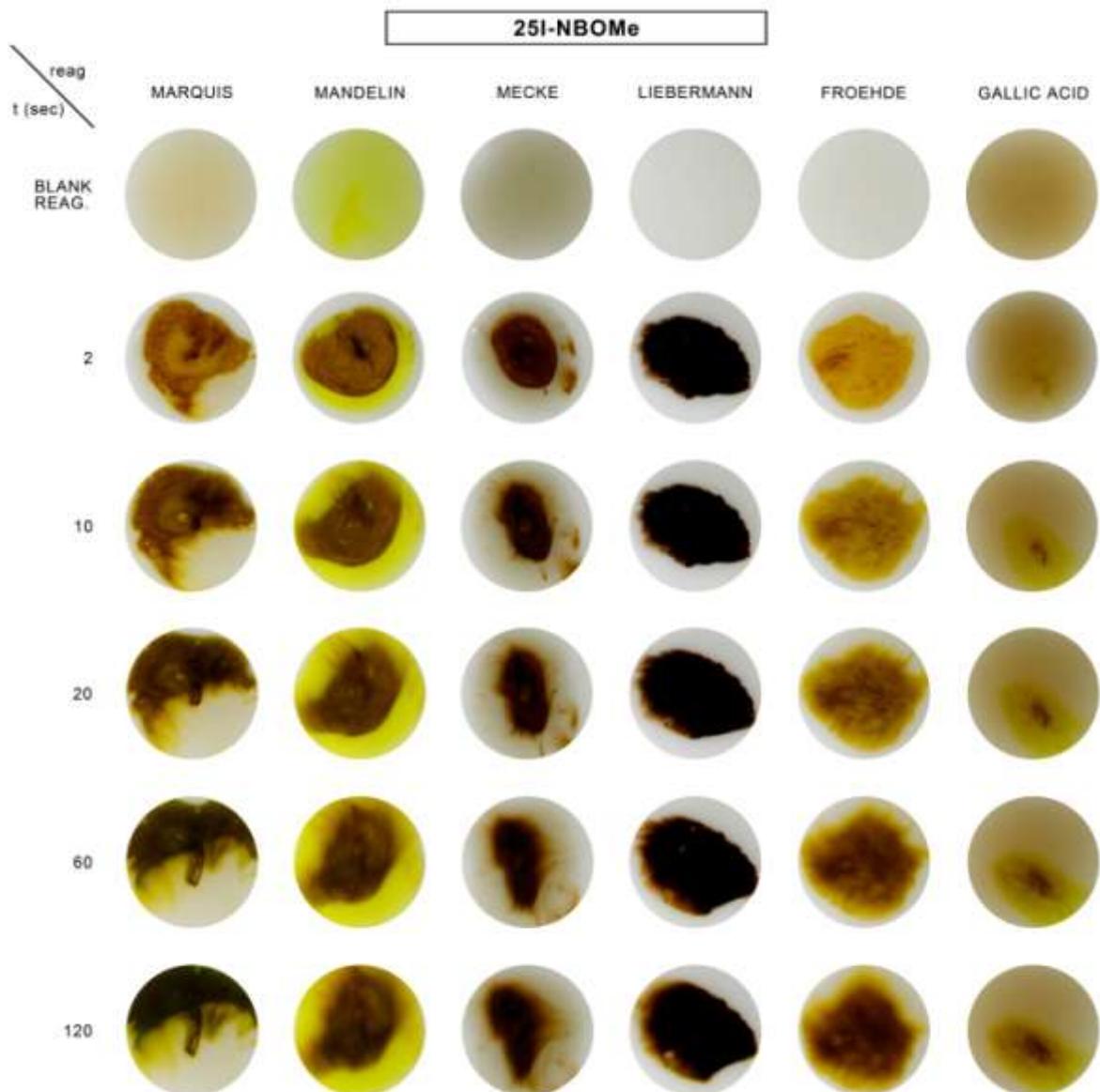
8.3. 25I-NBOH



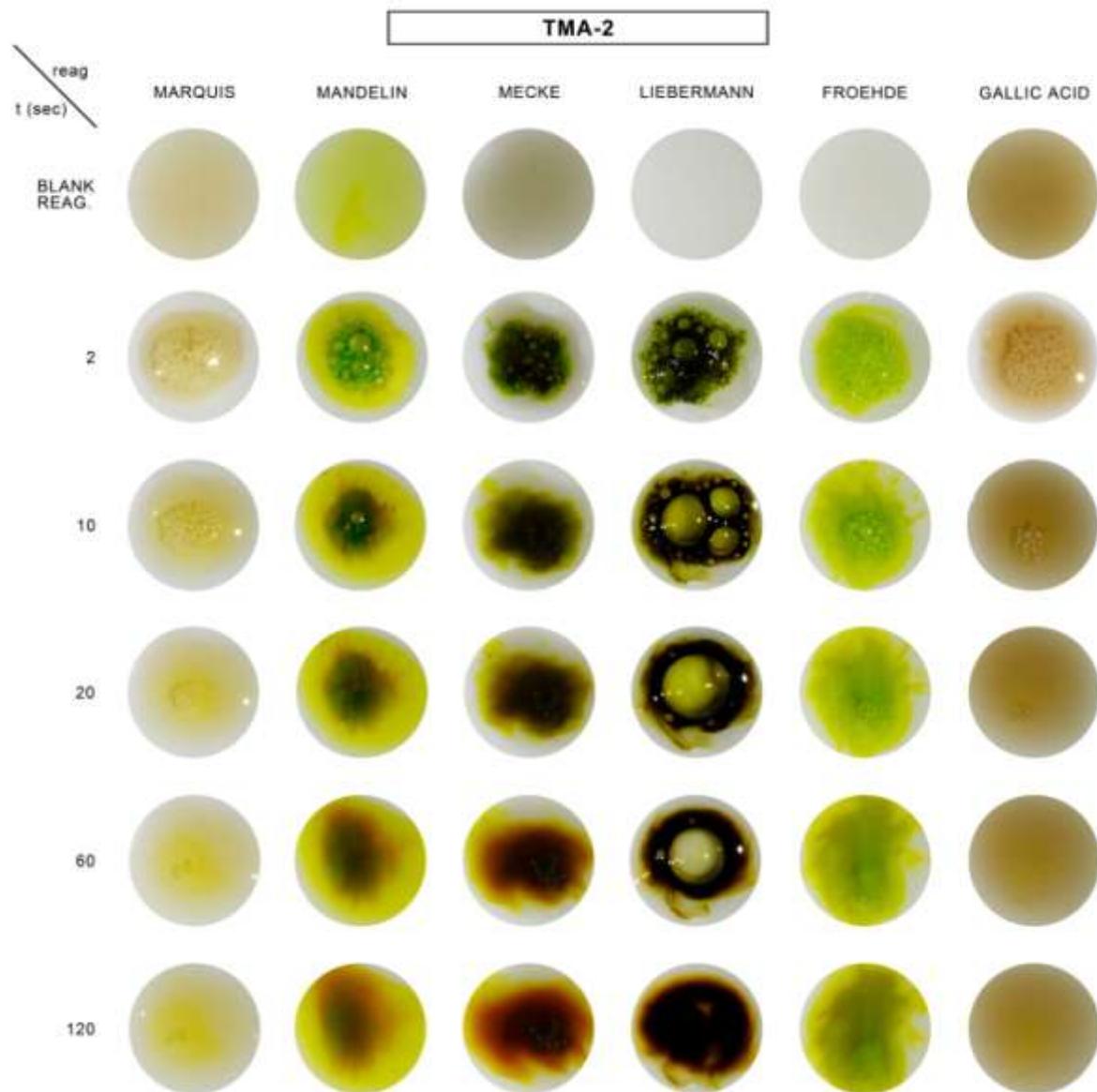
8.4. Homoveratrylamine



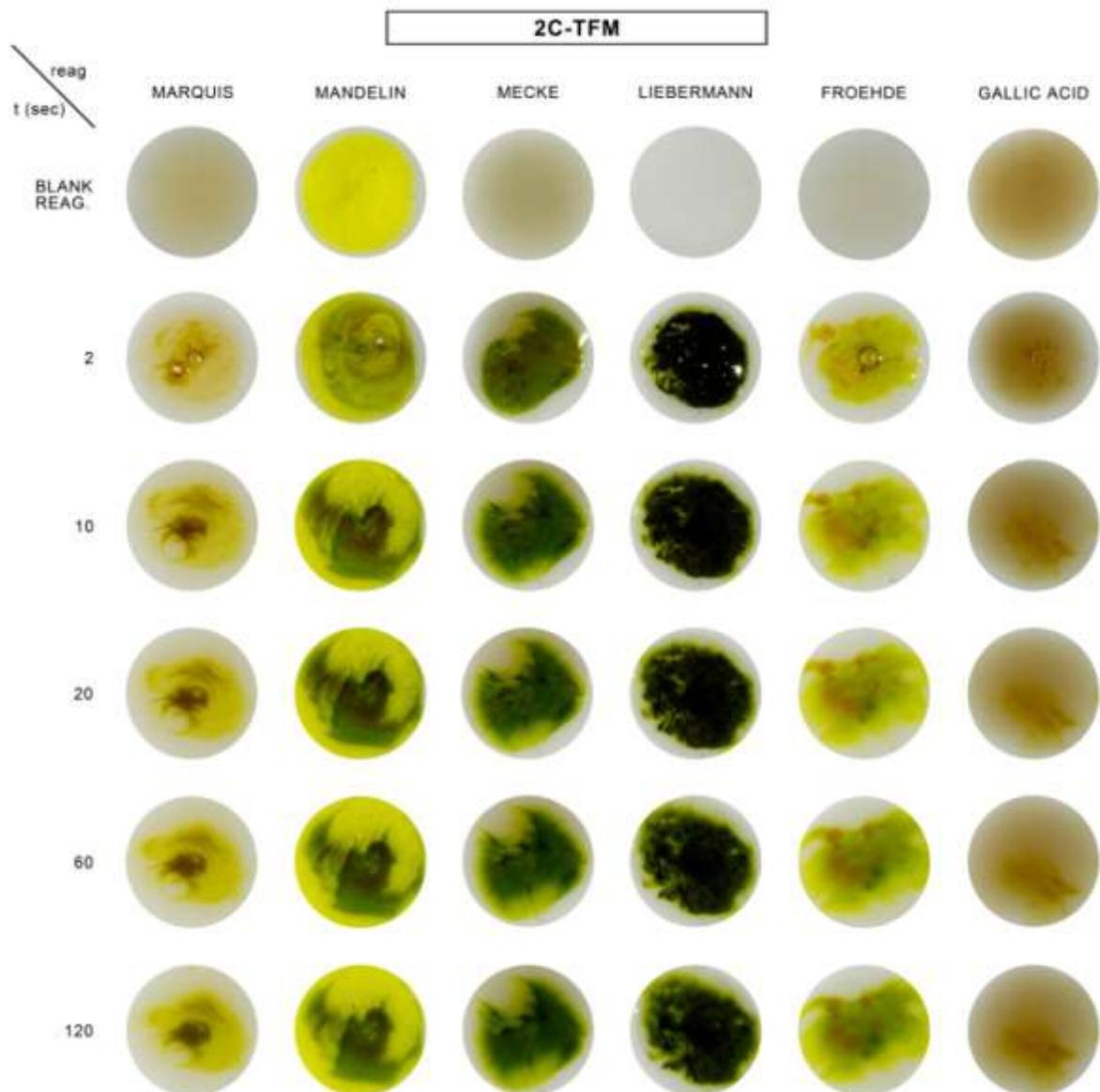
8.5. 25I-NBOMe



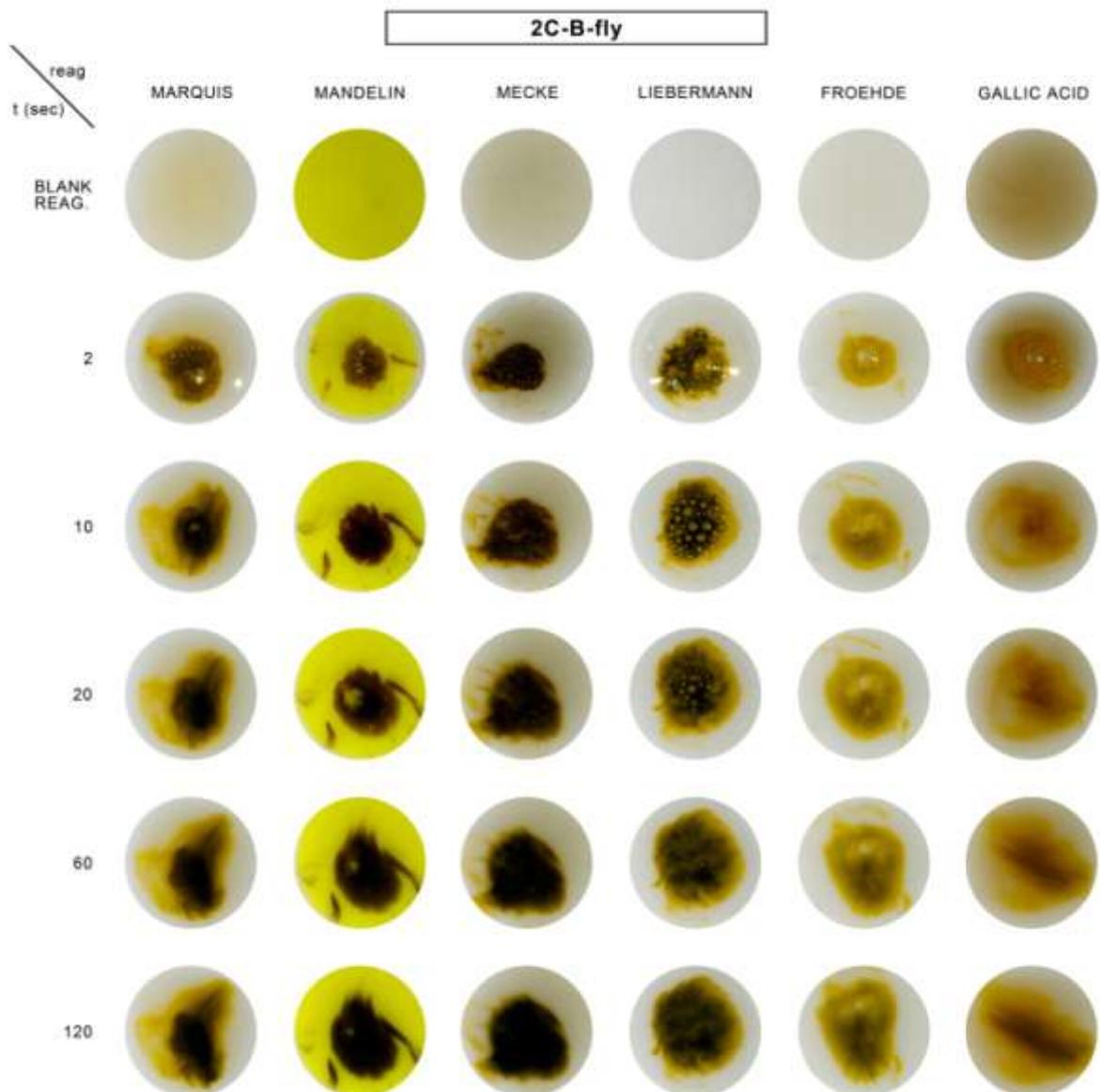
8.6. TMA-2



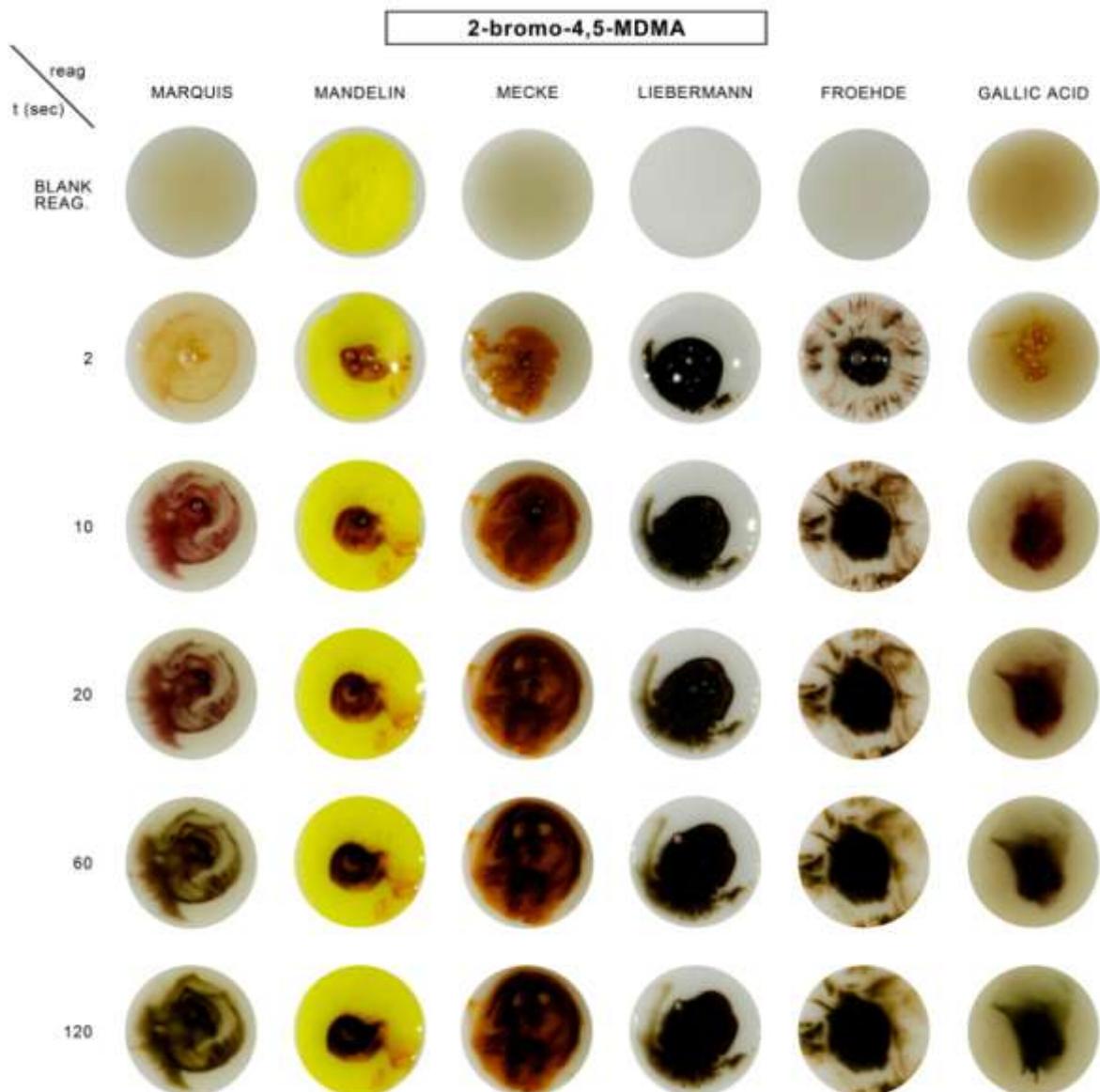
8.7.2C-TFM



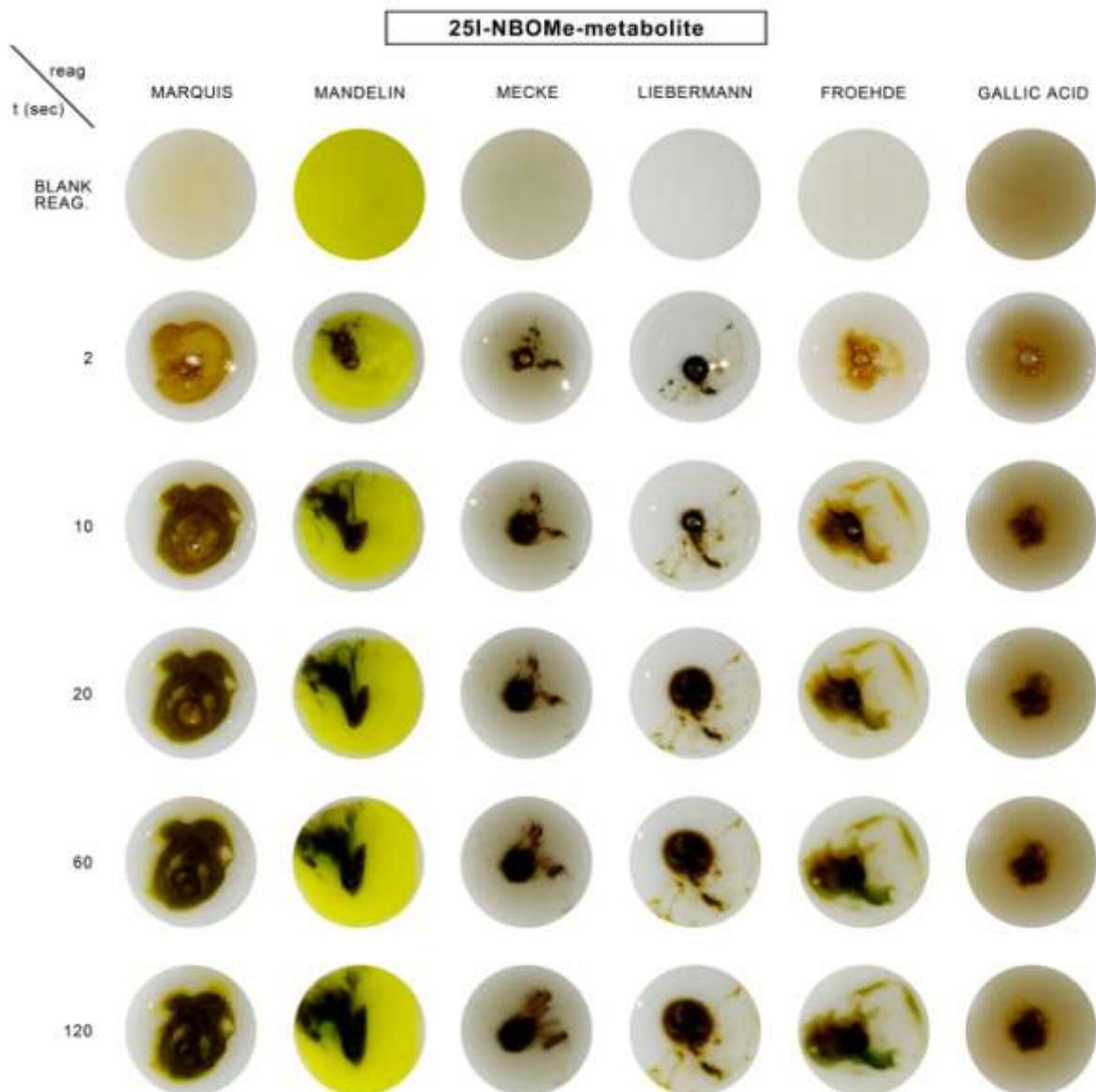
8.8. 2C-B-fly



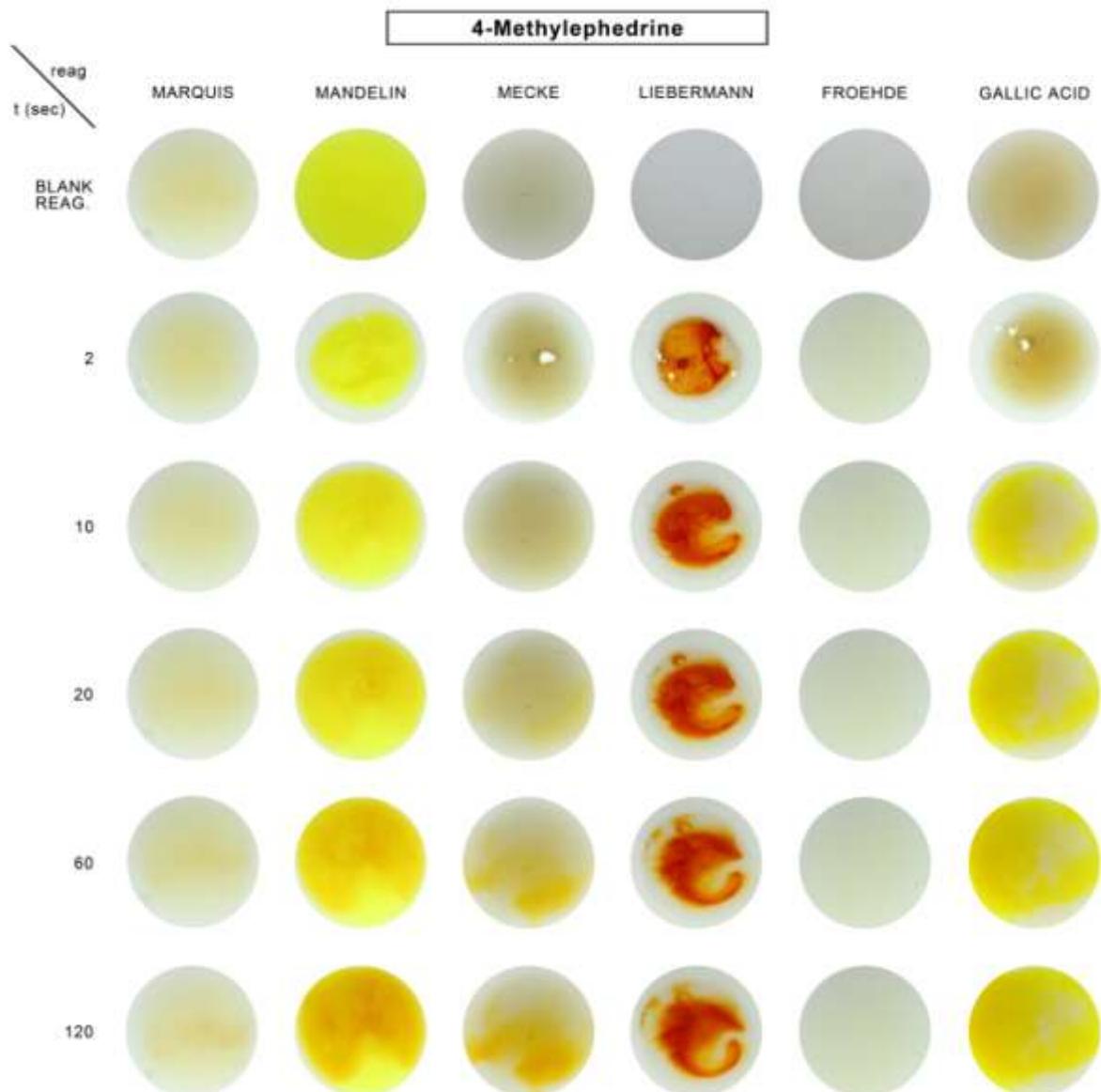
8.9. 2-bromo-4,5-MDMA



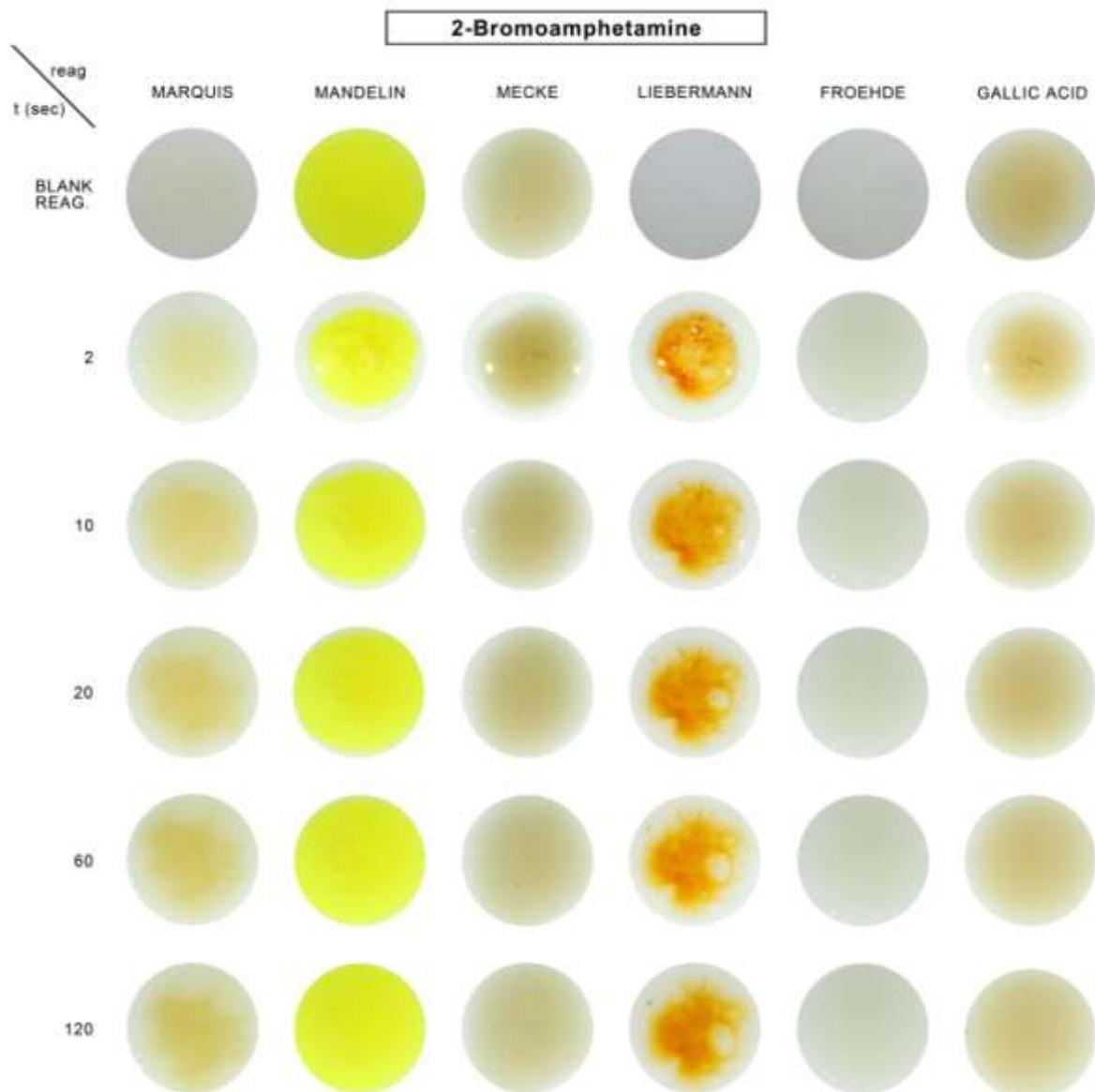
8.10. 25I-NBOMe-metabolite



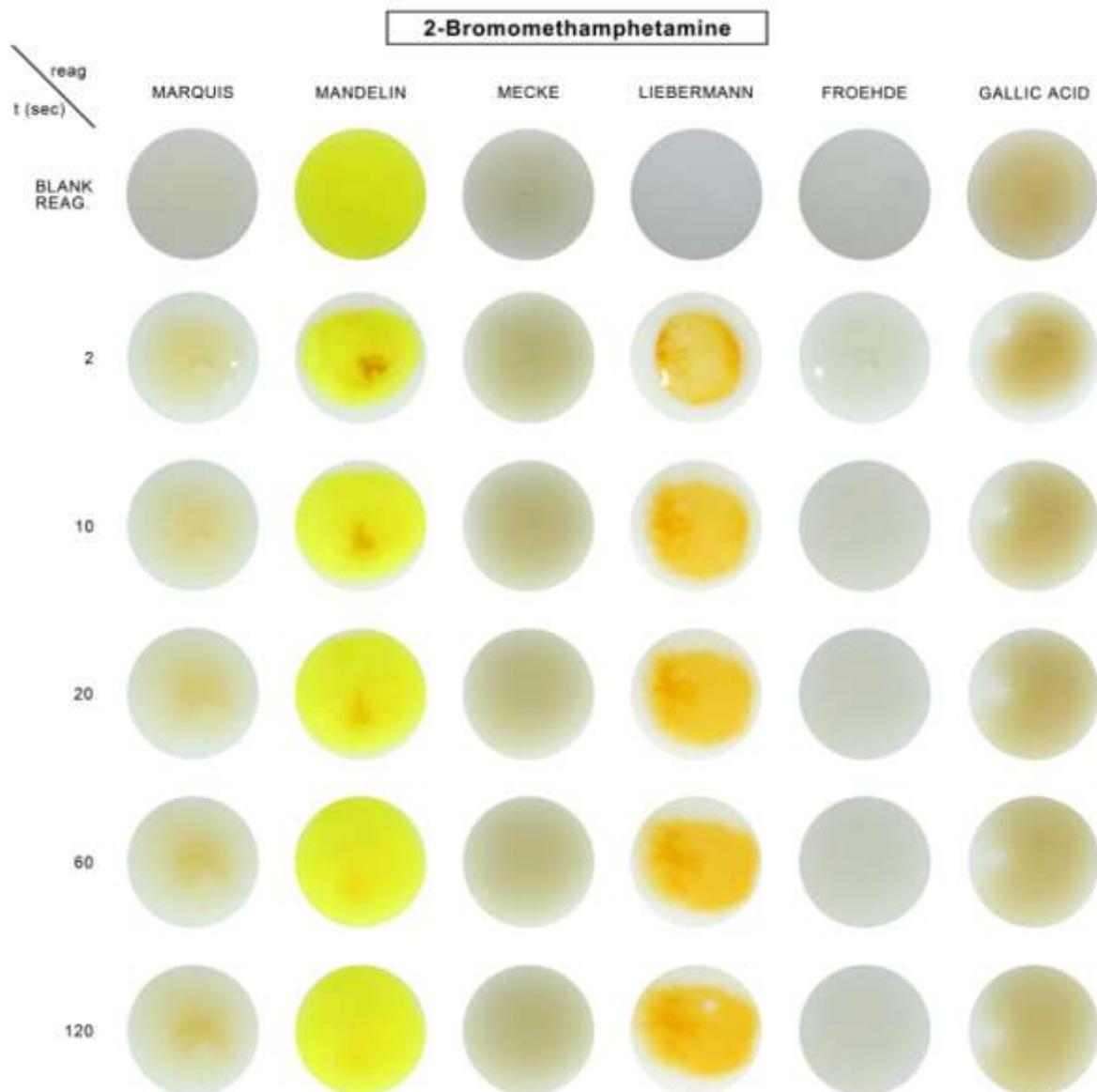
8.11. 4-Methylephedrine



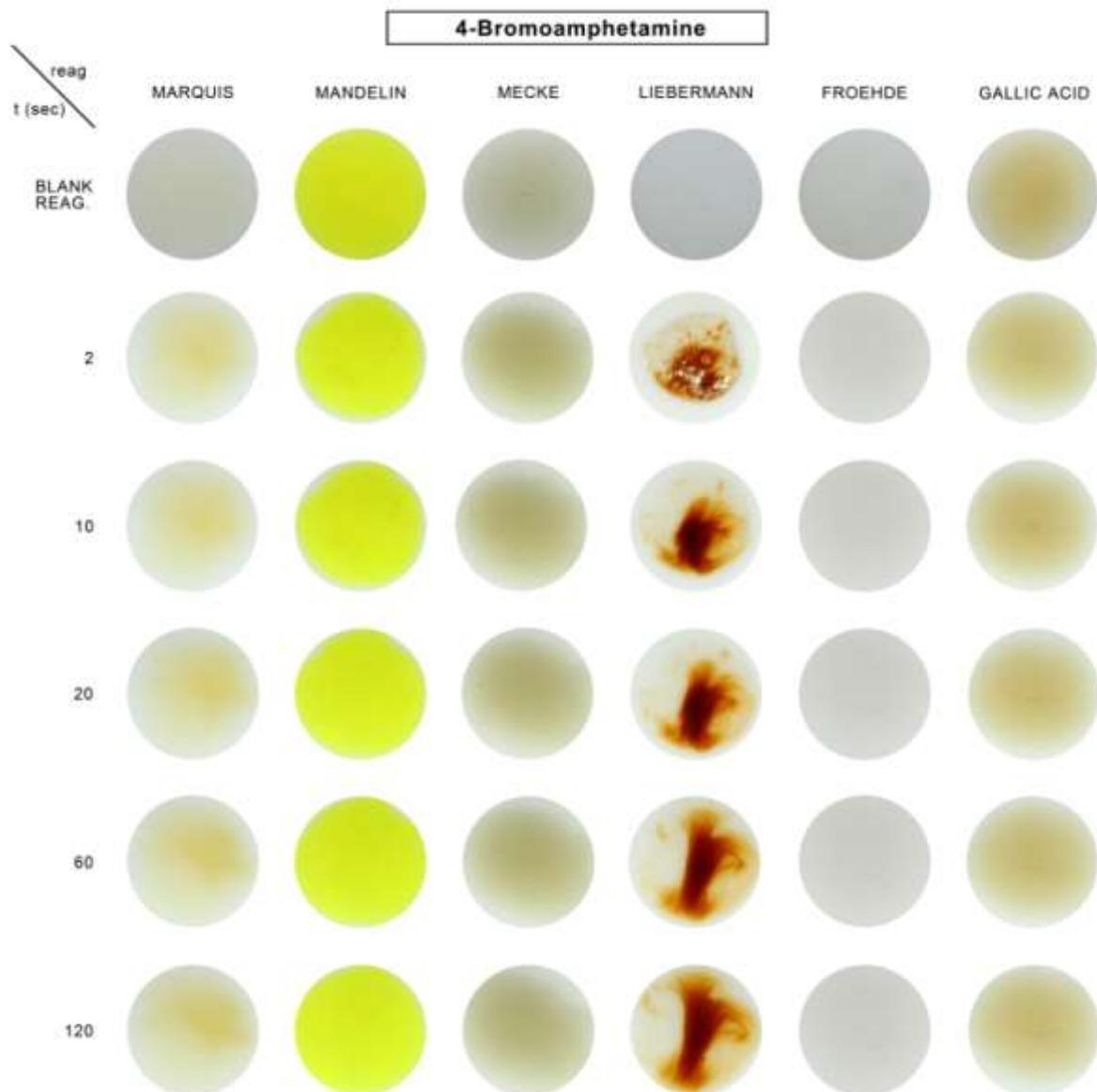
8.12. 2-Bromoamphetamine



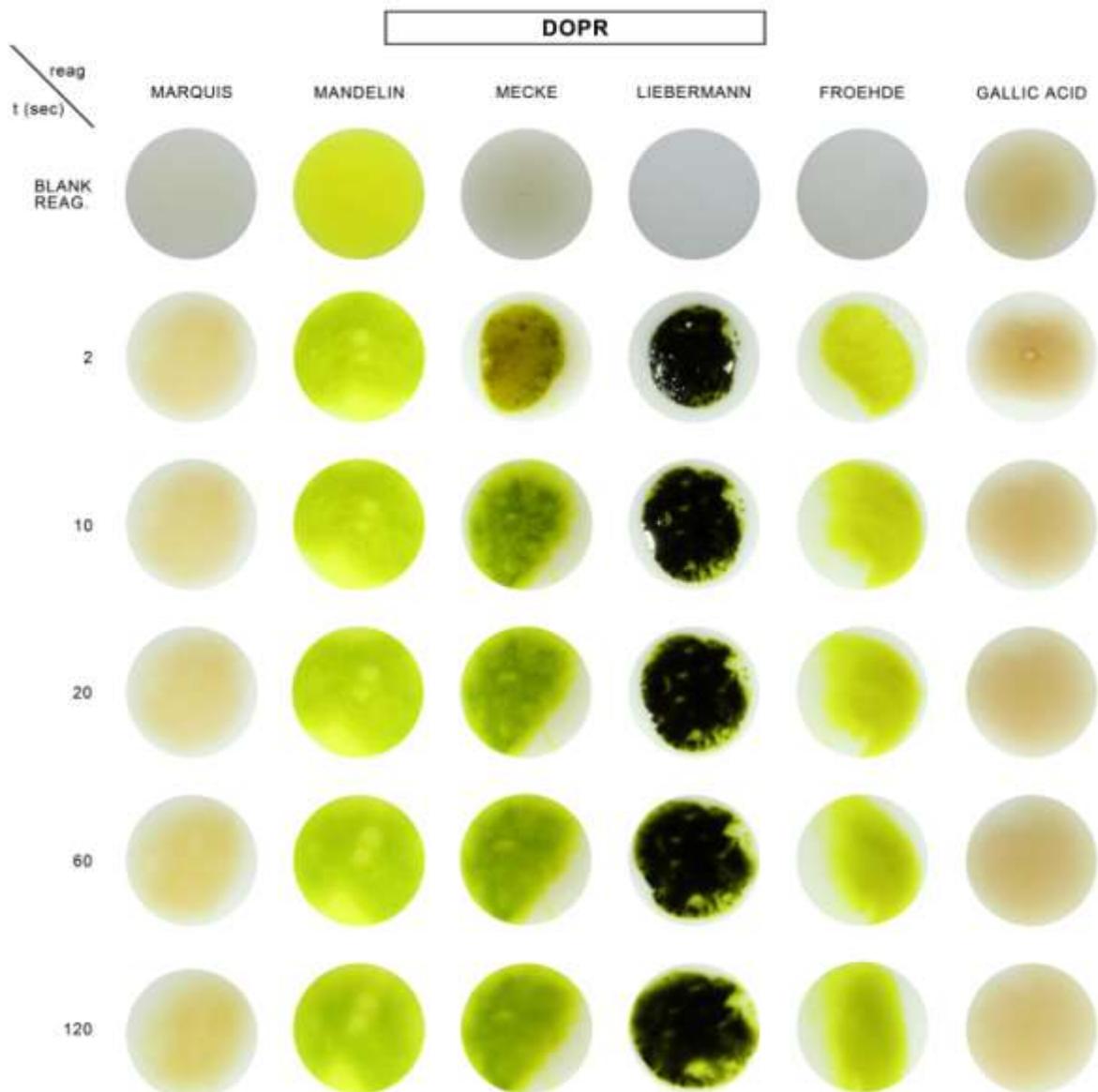
8.13. 2-Bromomethamphetamine



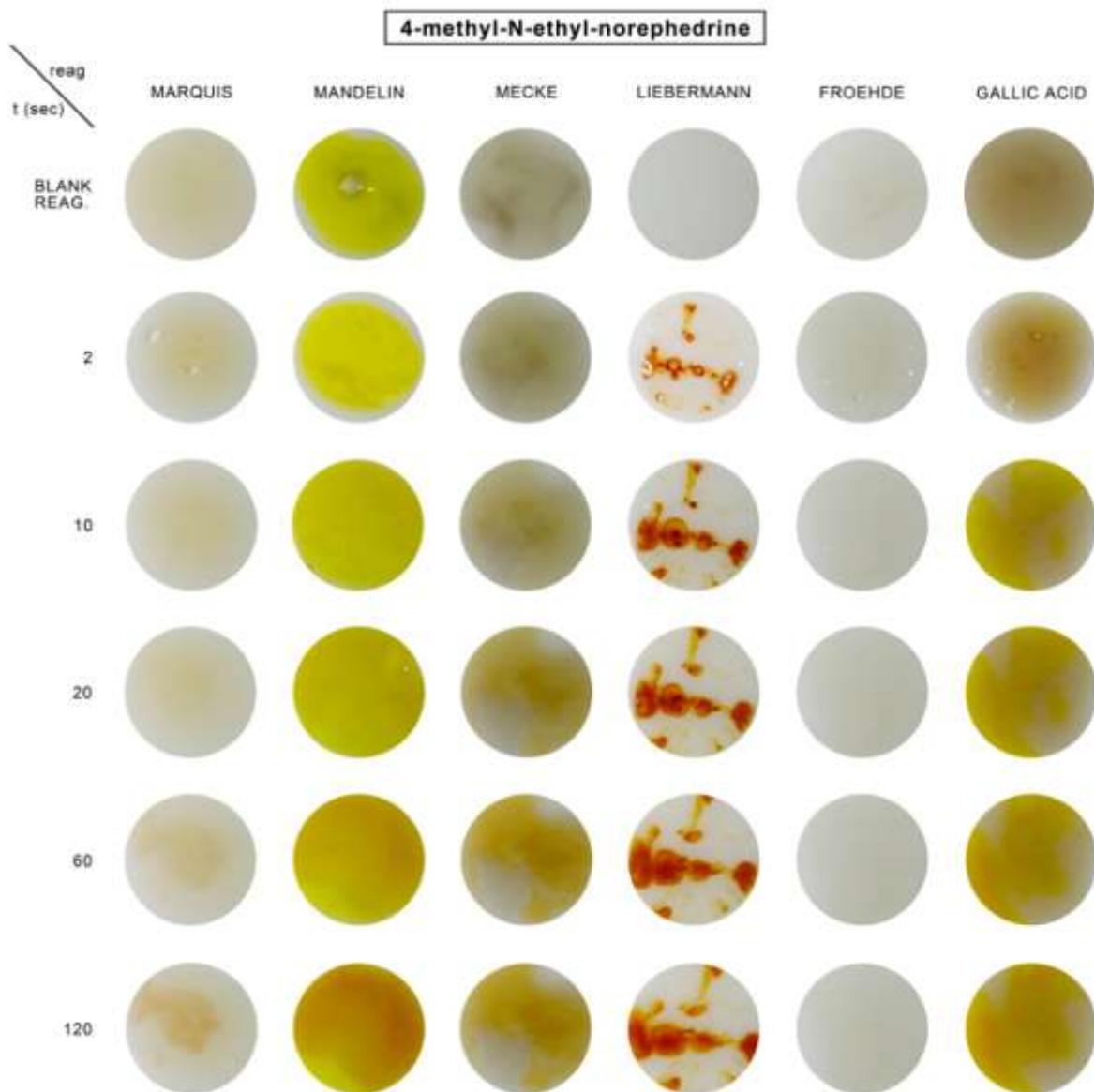
8.14. 4-Bromoamphetamine



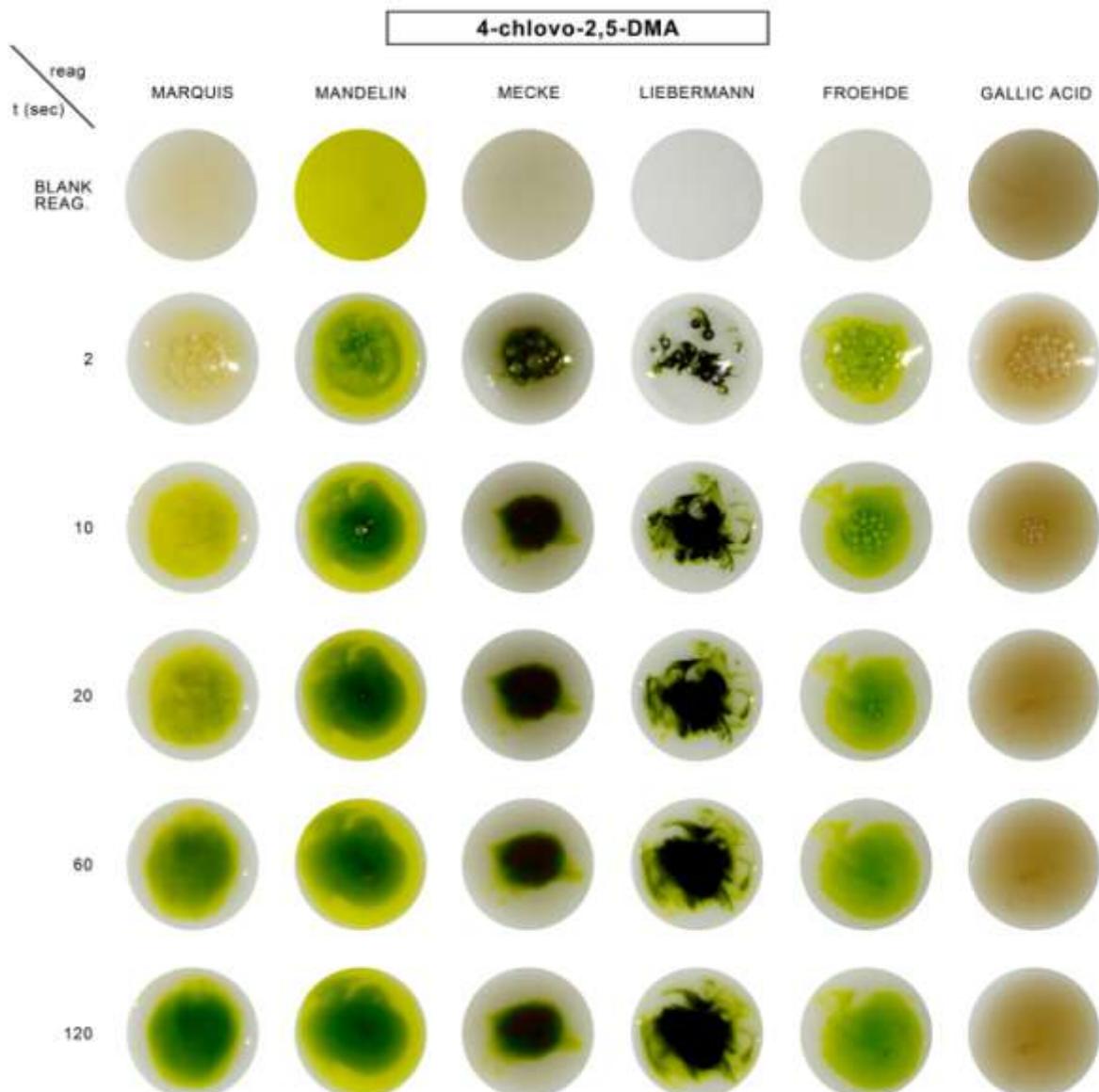
8.15. DOPR



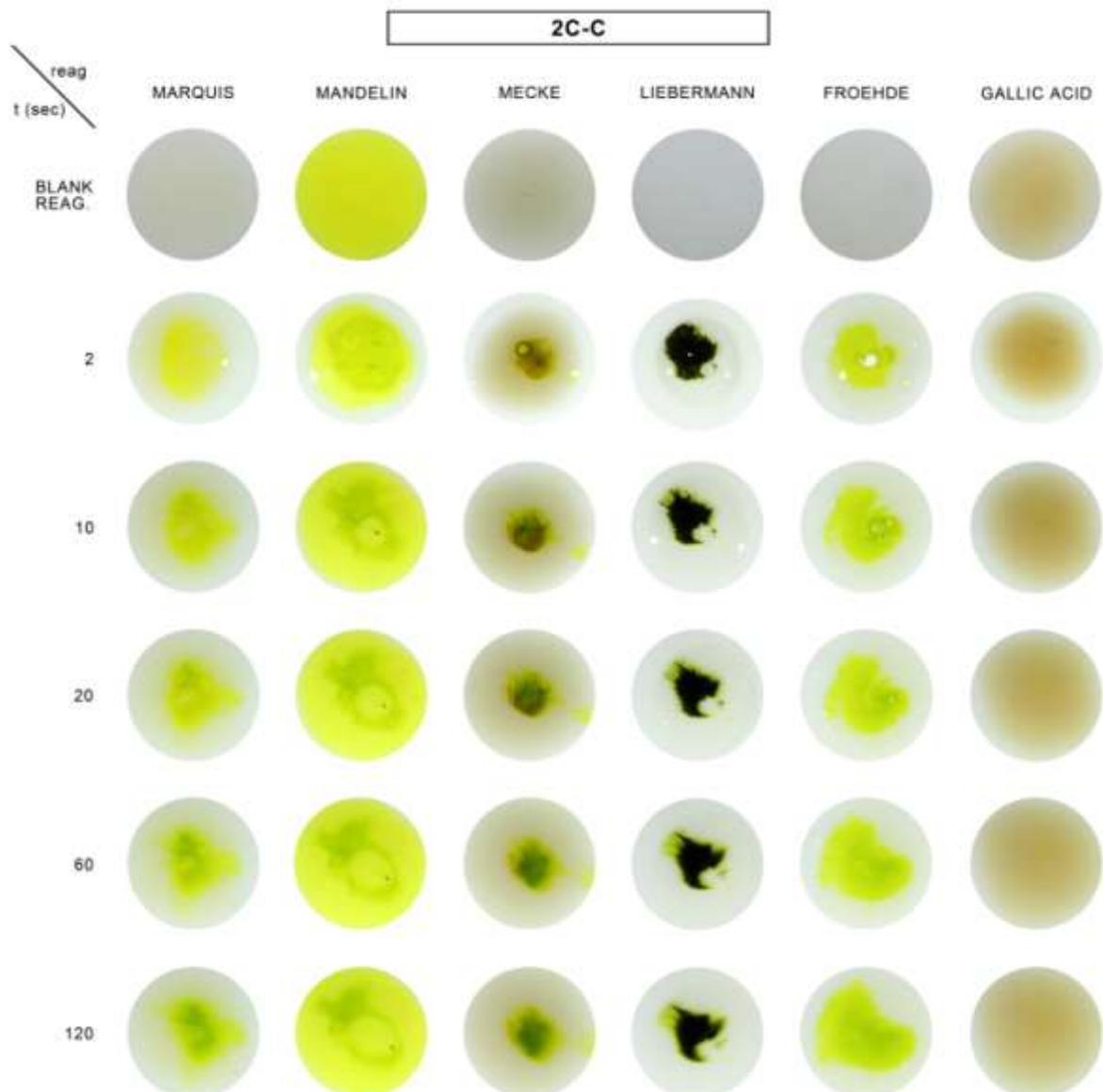
8.16. 4-methyl-N-ethyl-norephedrine



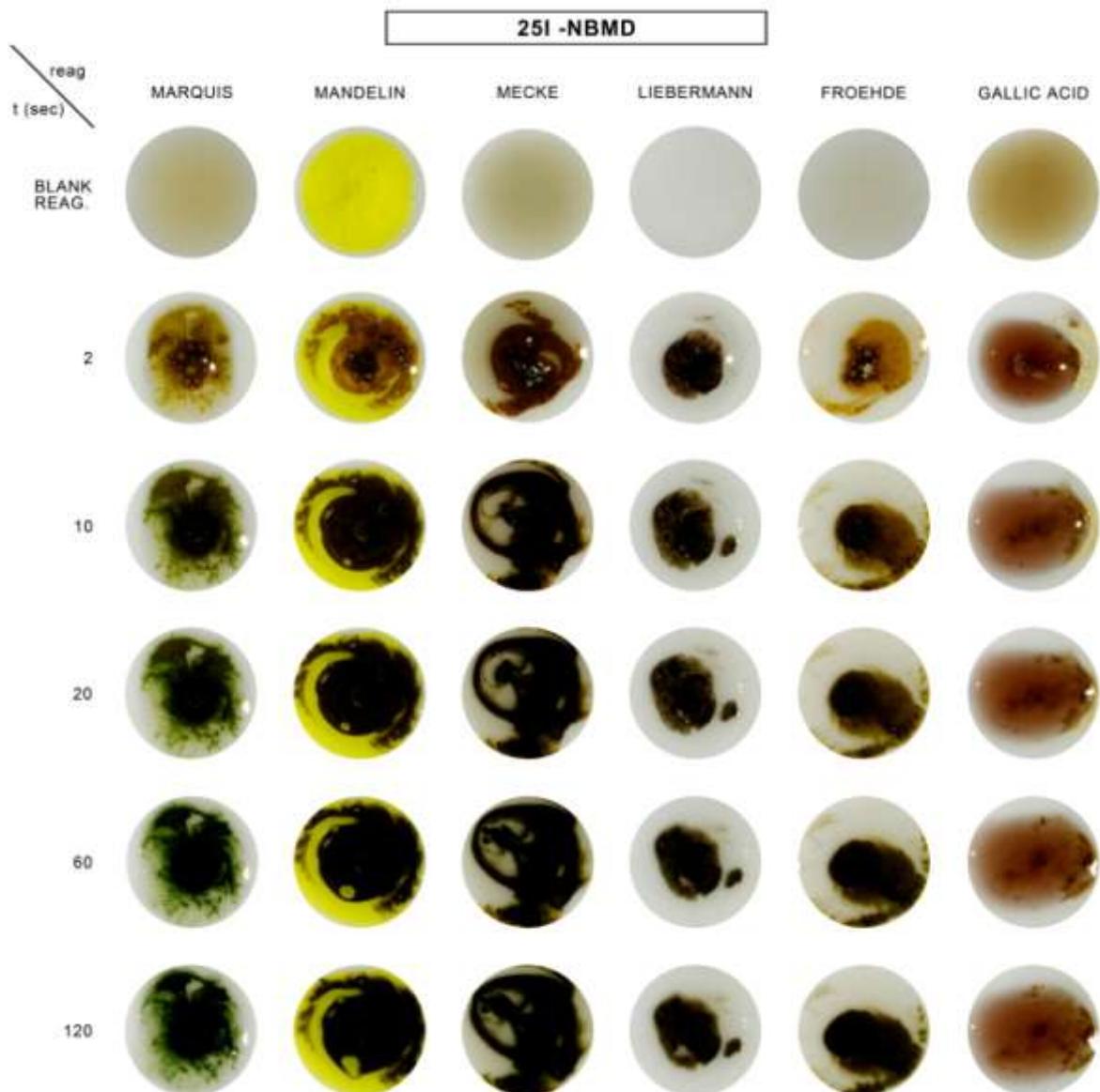
8.17. 4-chloro-2,5-DMA



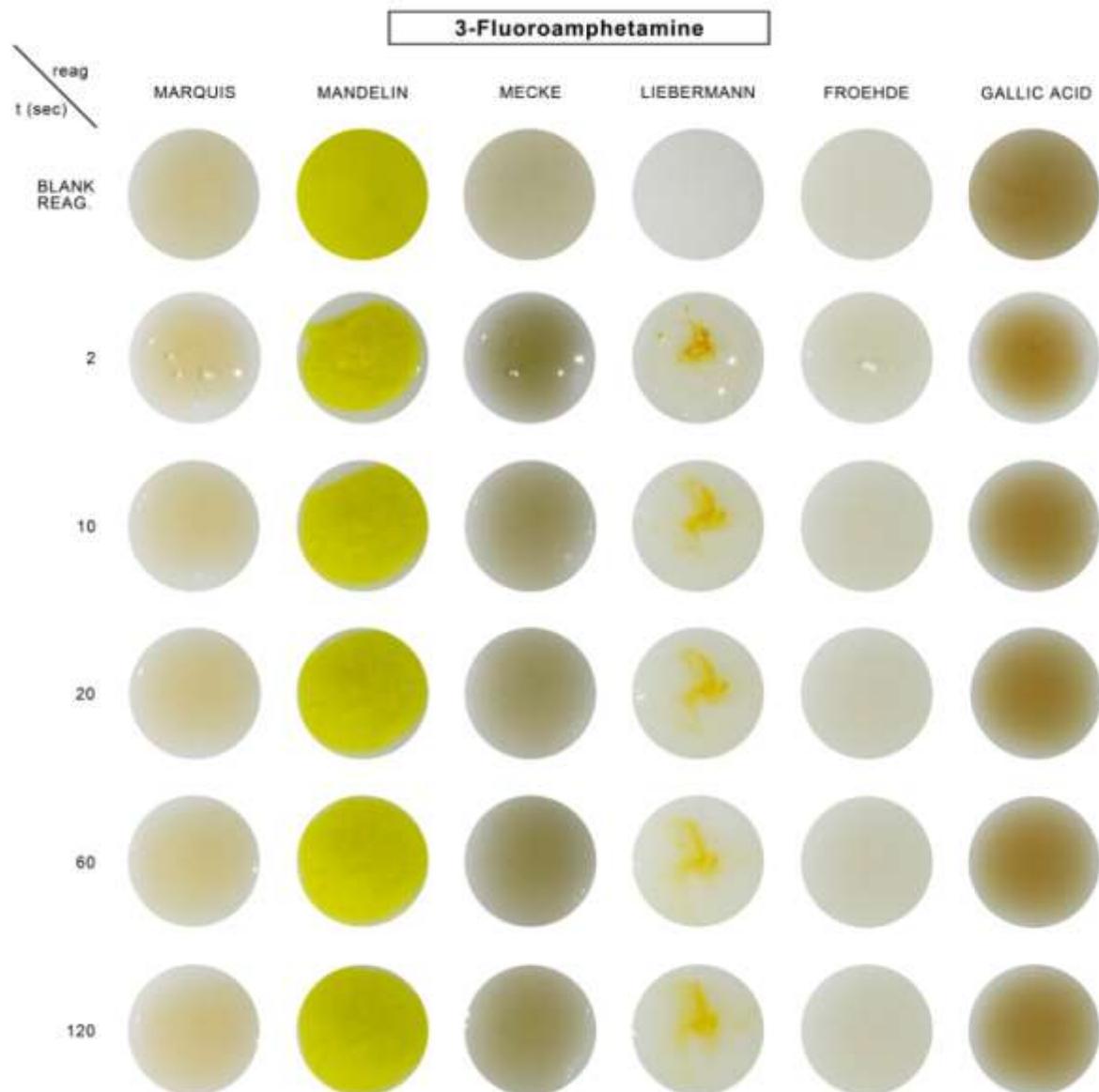
8.18. 2C-C



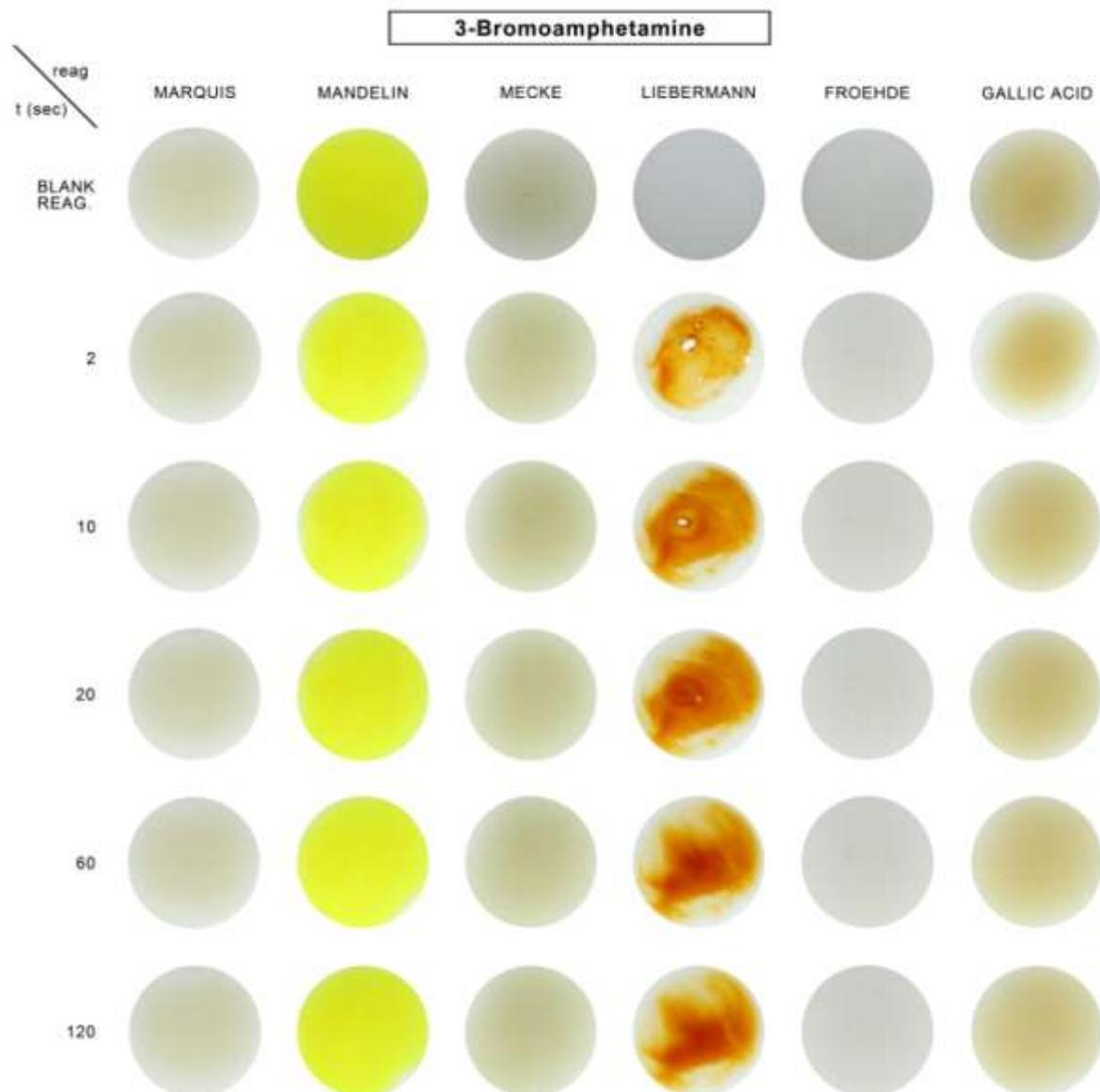
8.19. 25I-NBMD



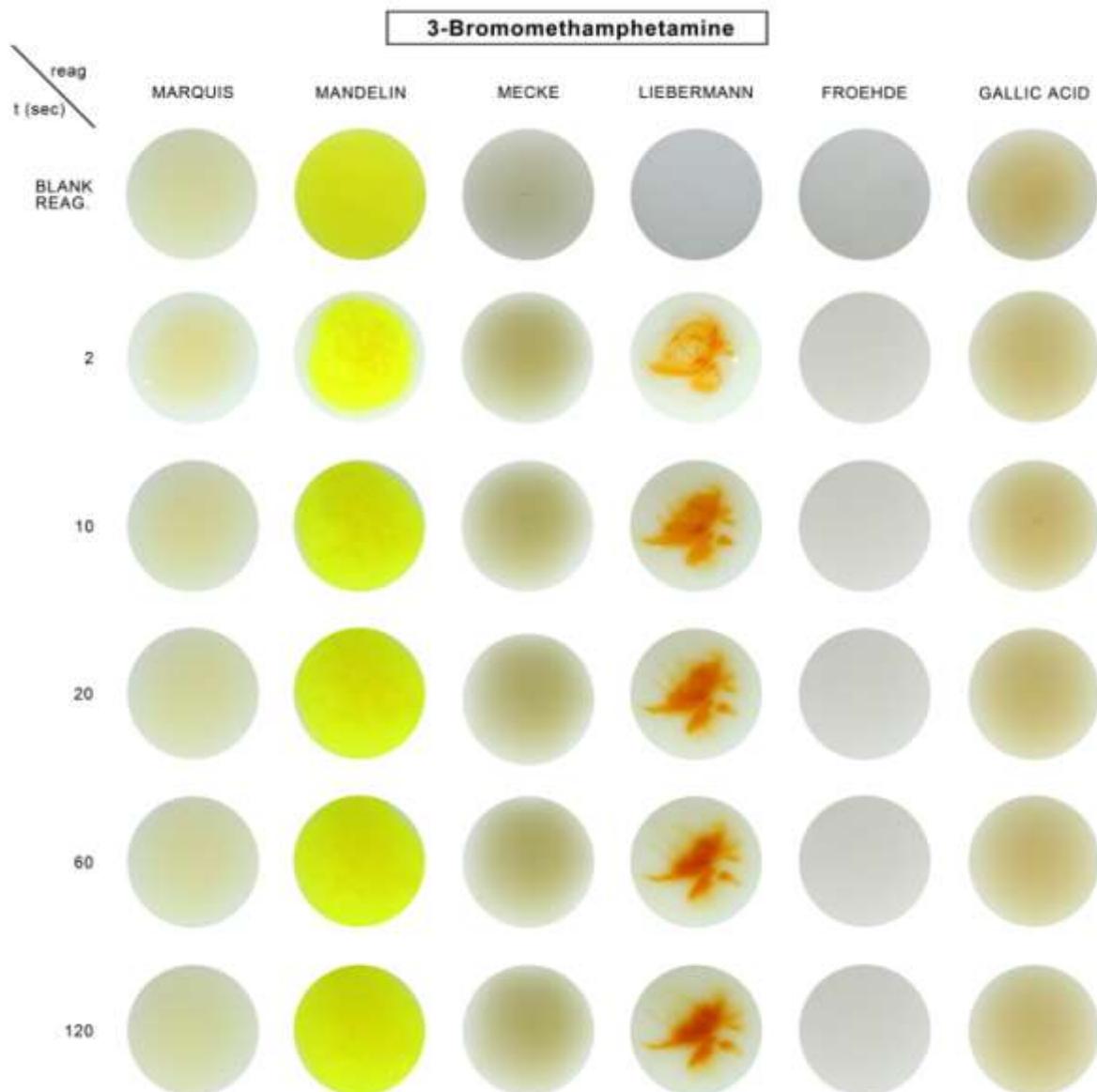
8.20. 3-Fluoroamphetamine



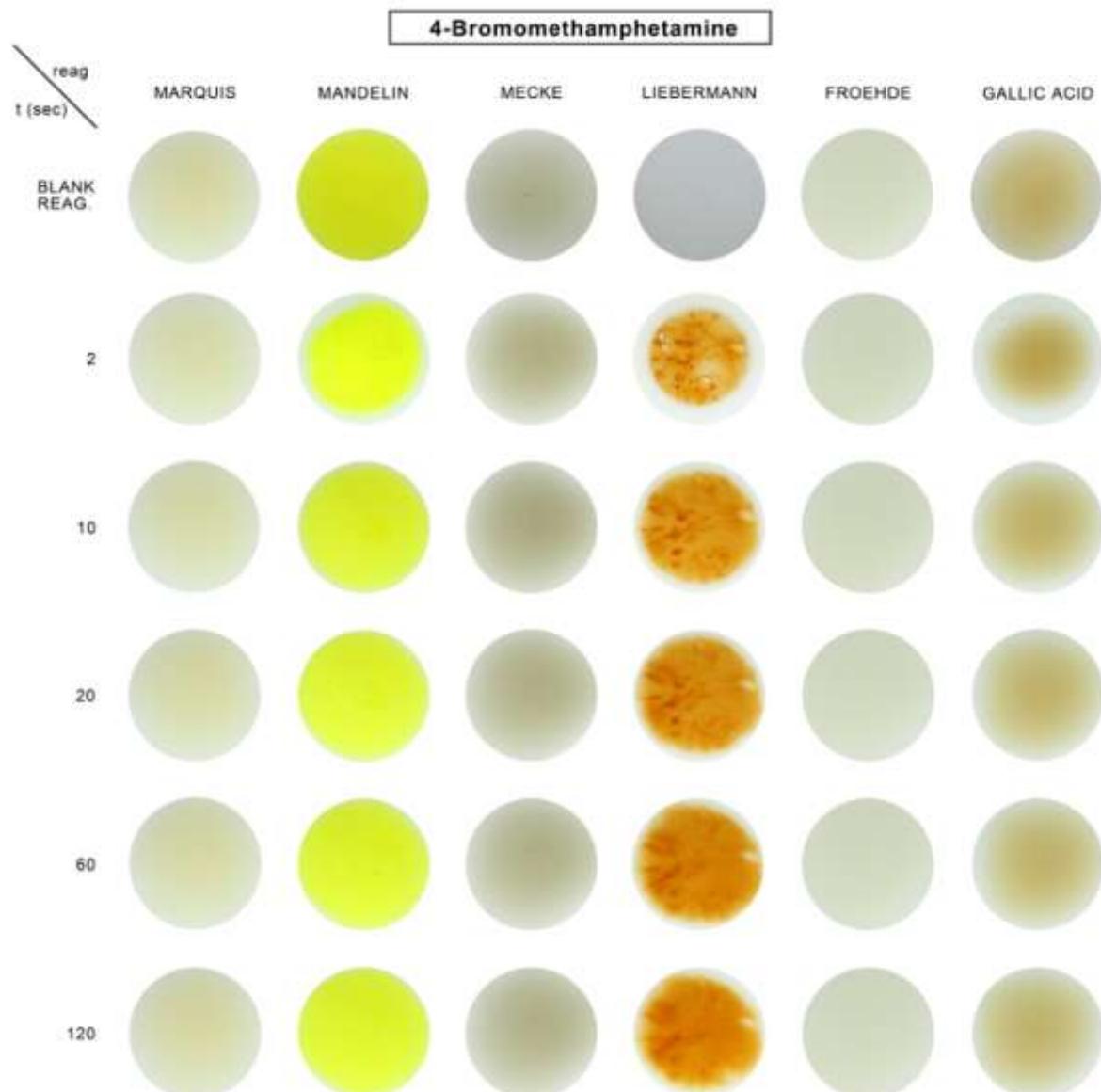
8.21. 3-Bromoamphetamine



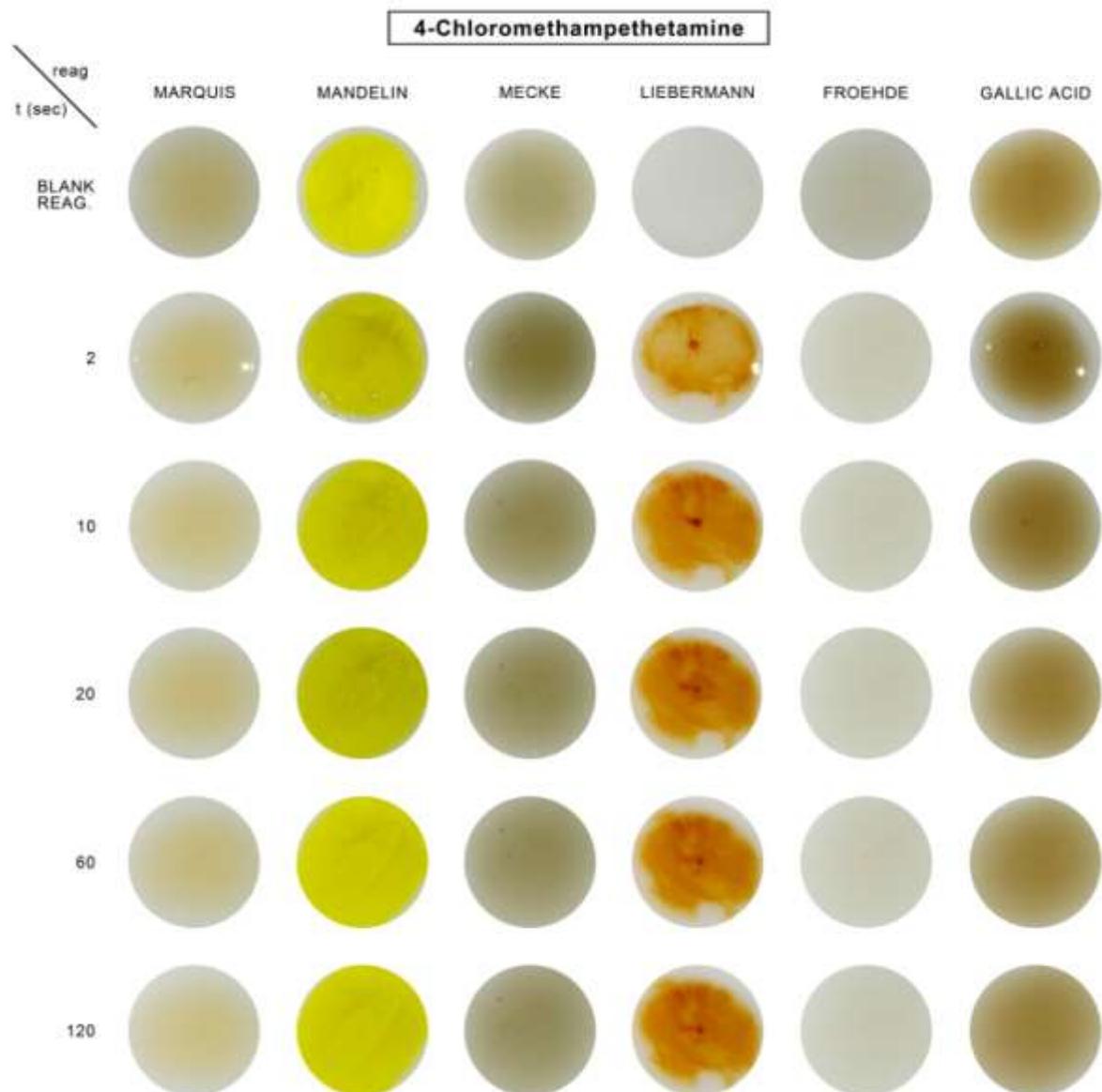
8.22. 3-Bromomethamphetamine



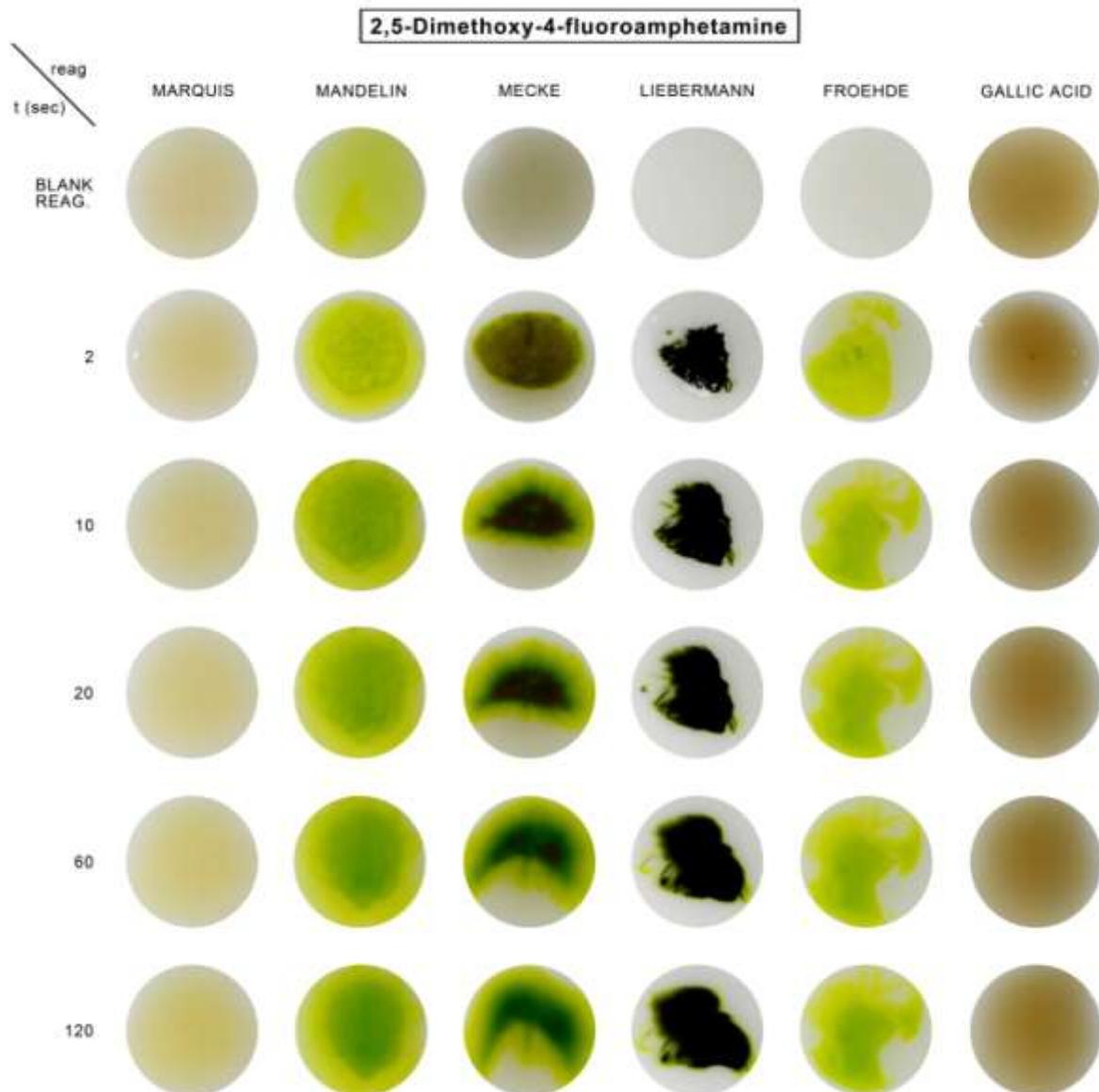
8.23. 4-Bromomethamphetamine



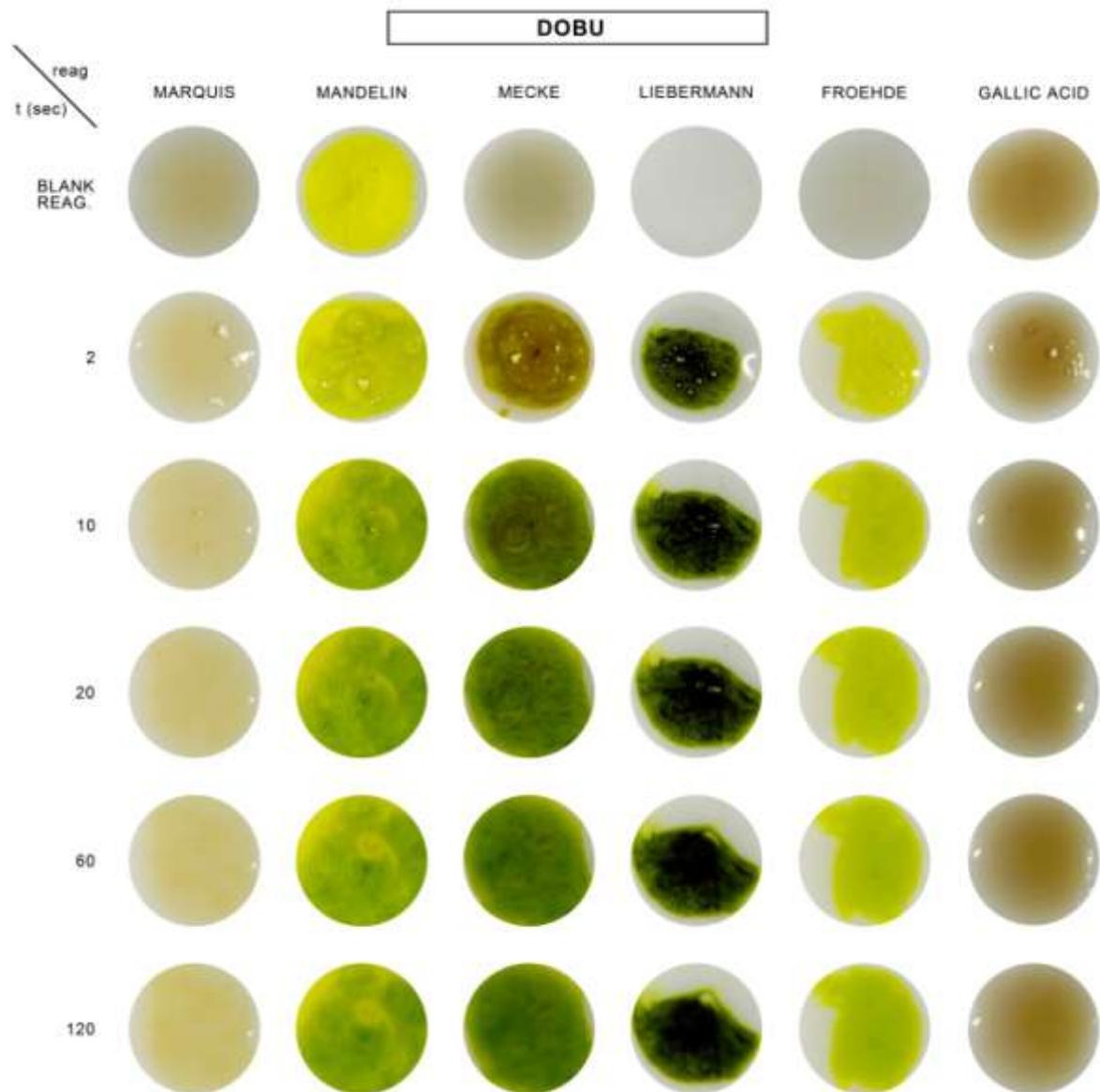
8.24. 4-Chloromethamphetamine



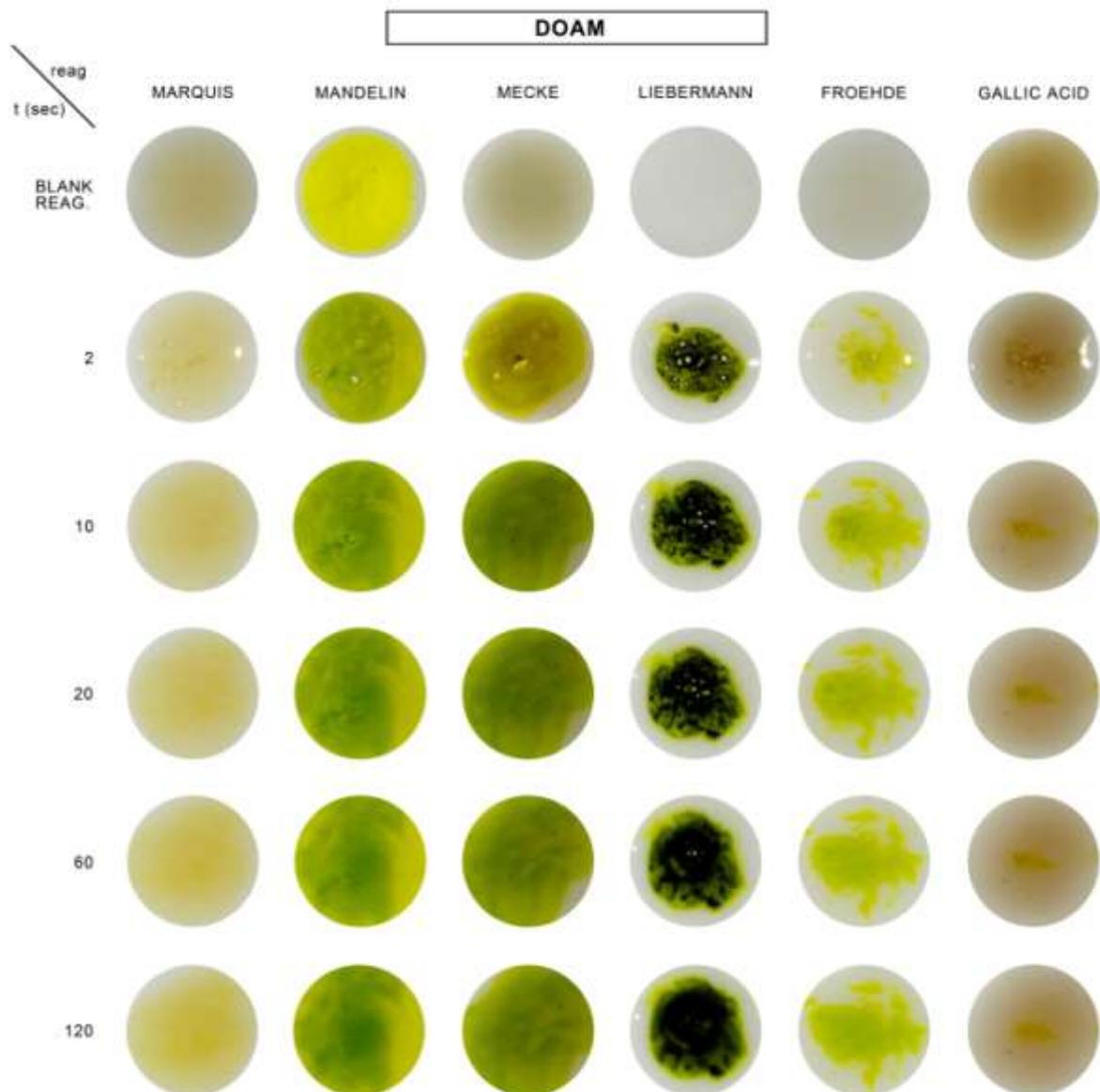
8.25. DOF



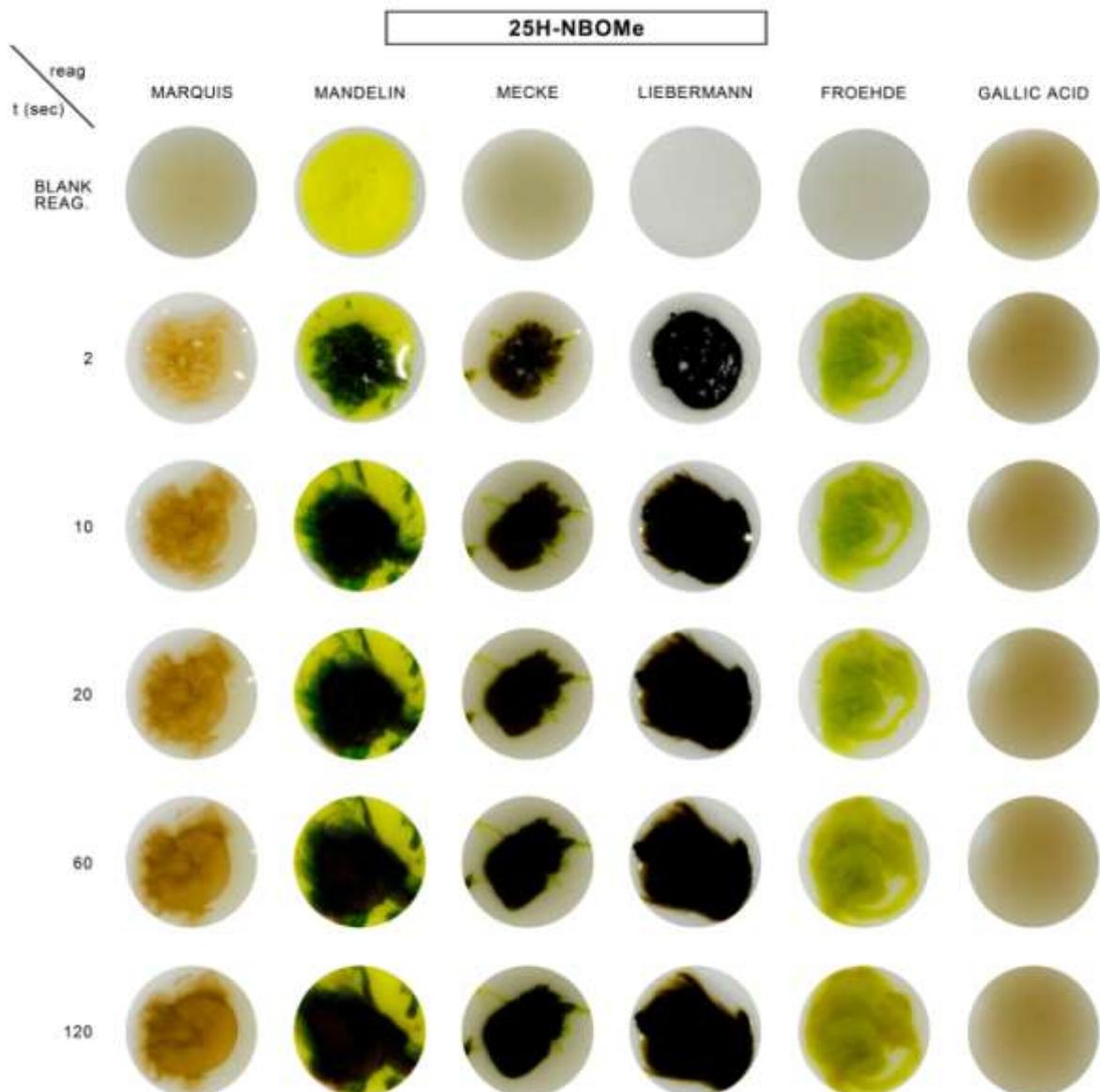
8.26. DOBU



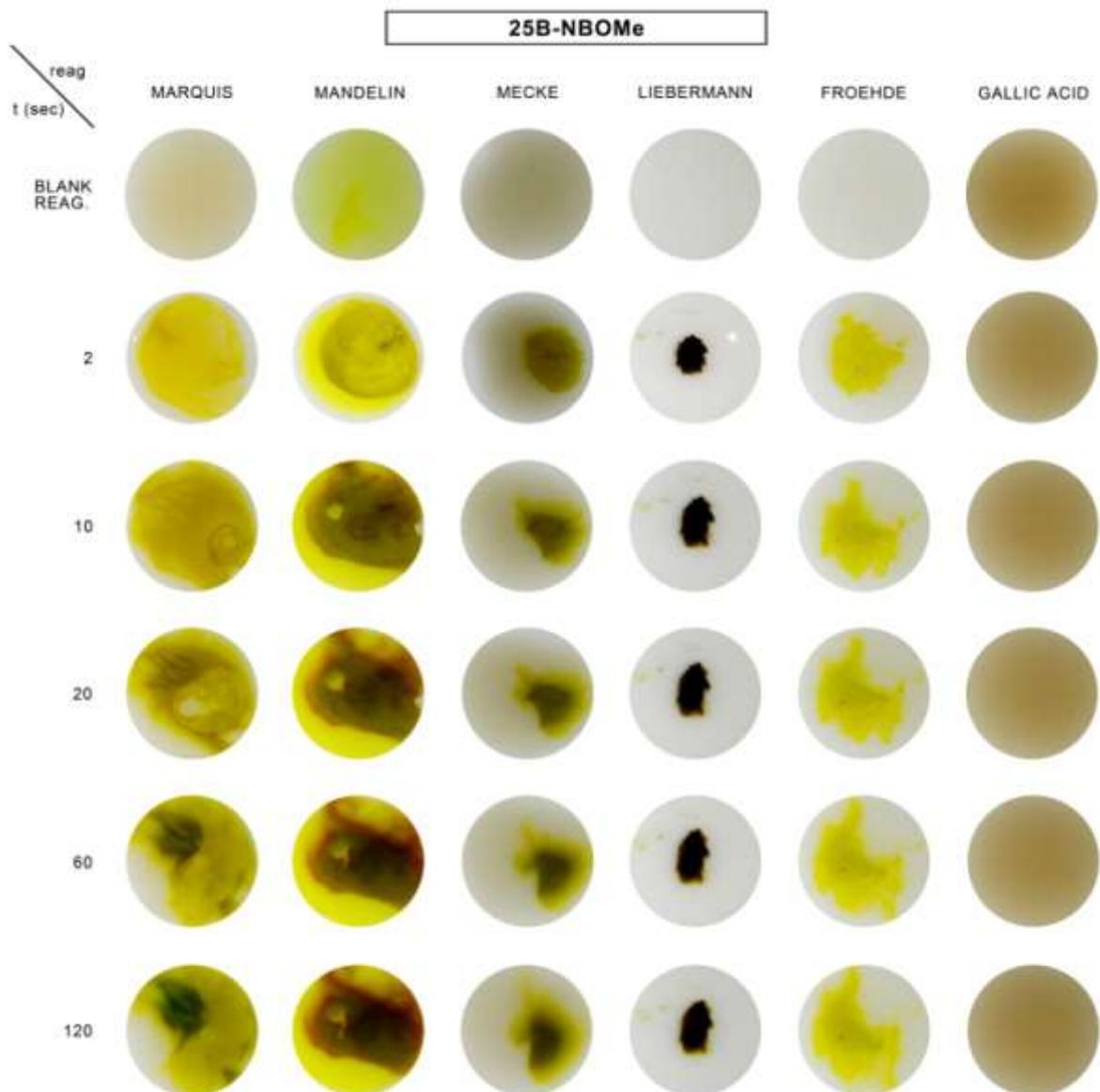
8.27. DOAM



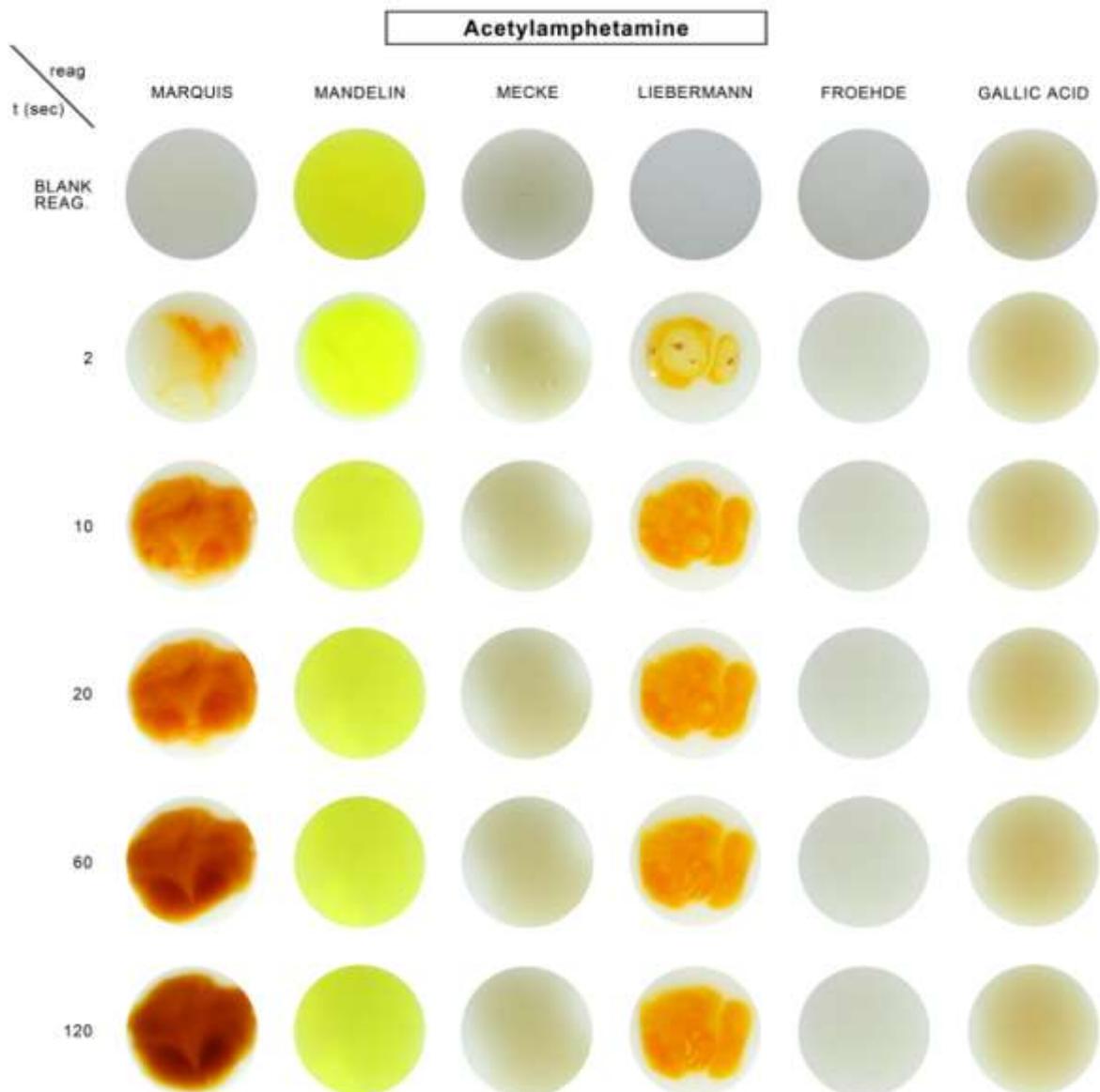
8.28. 25H-NBOMe



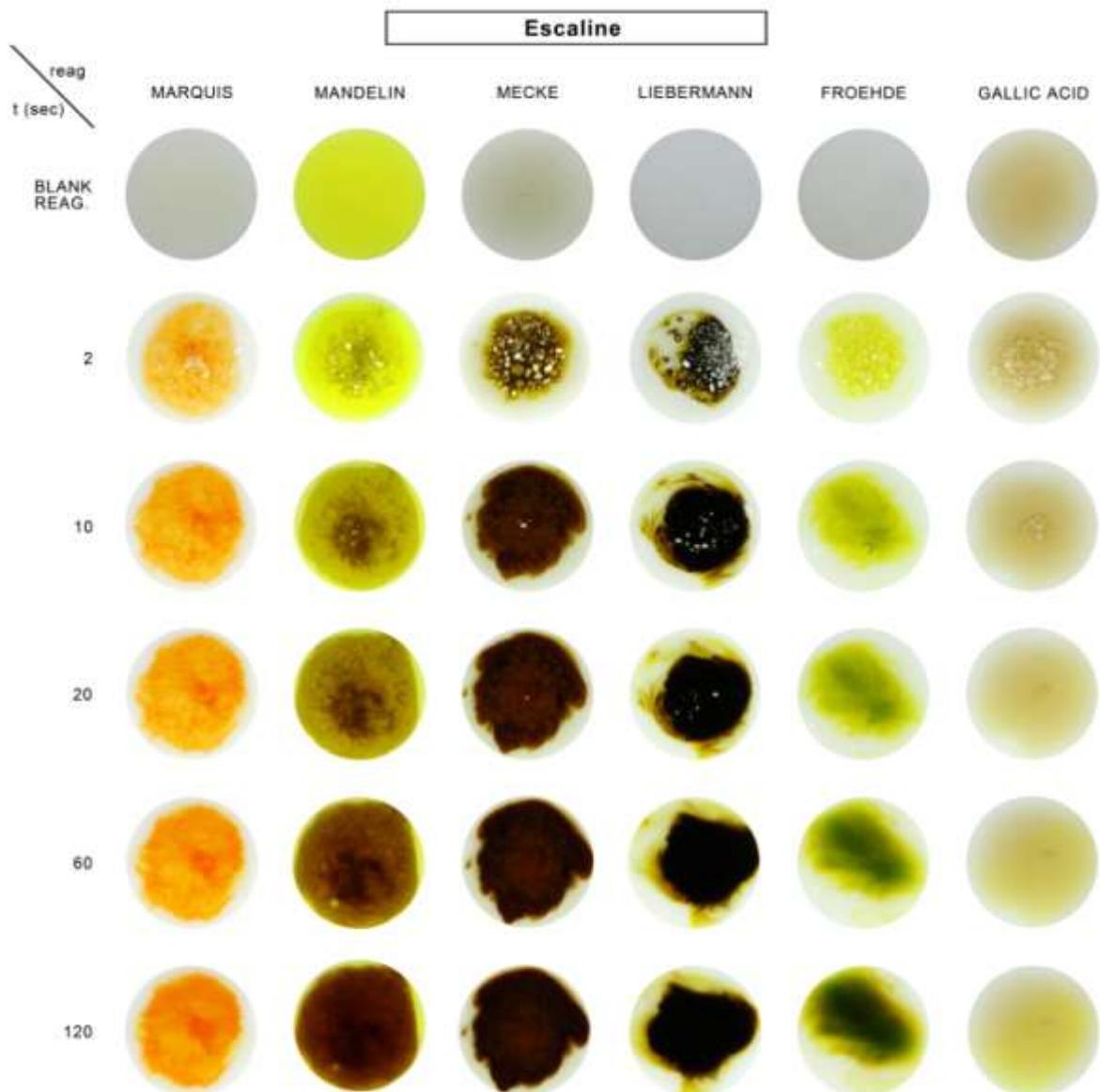
8.29. 25B-NBOMe



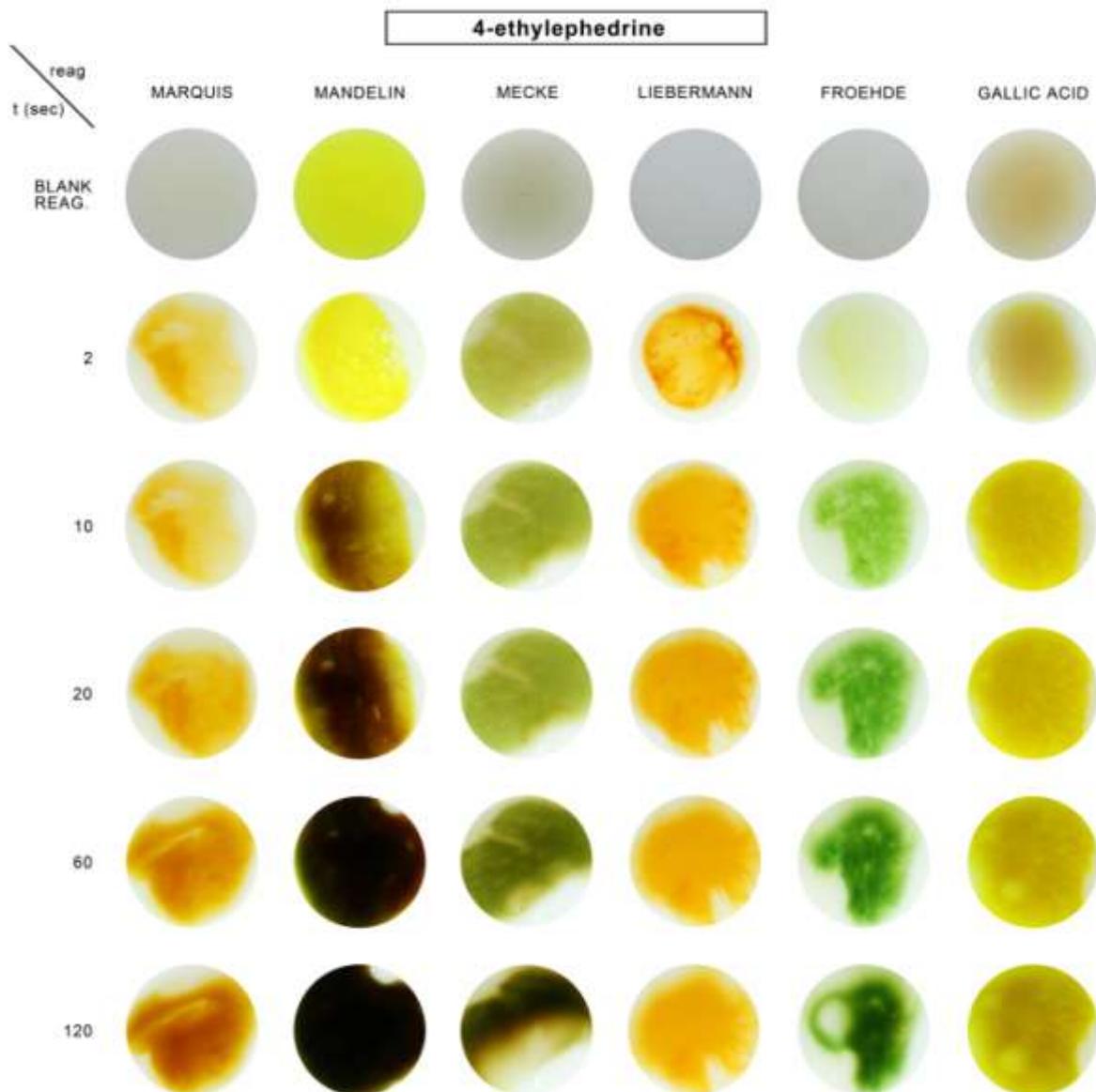
8.30. Acetylamphetamine



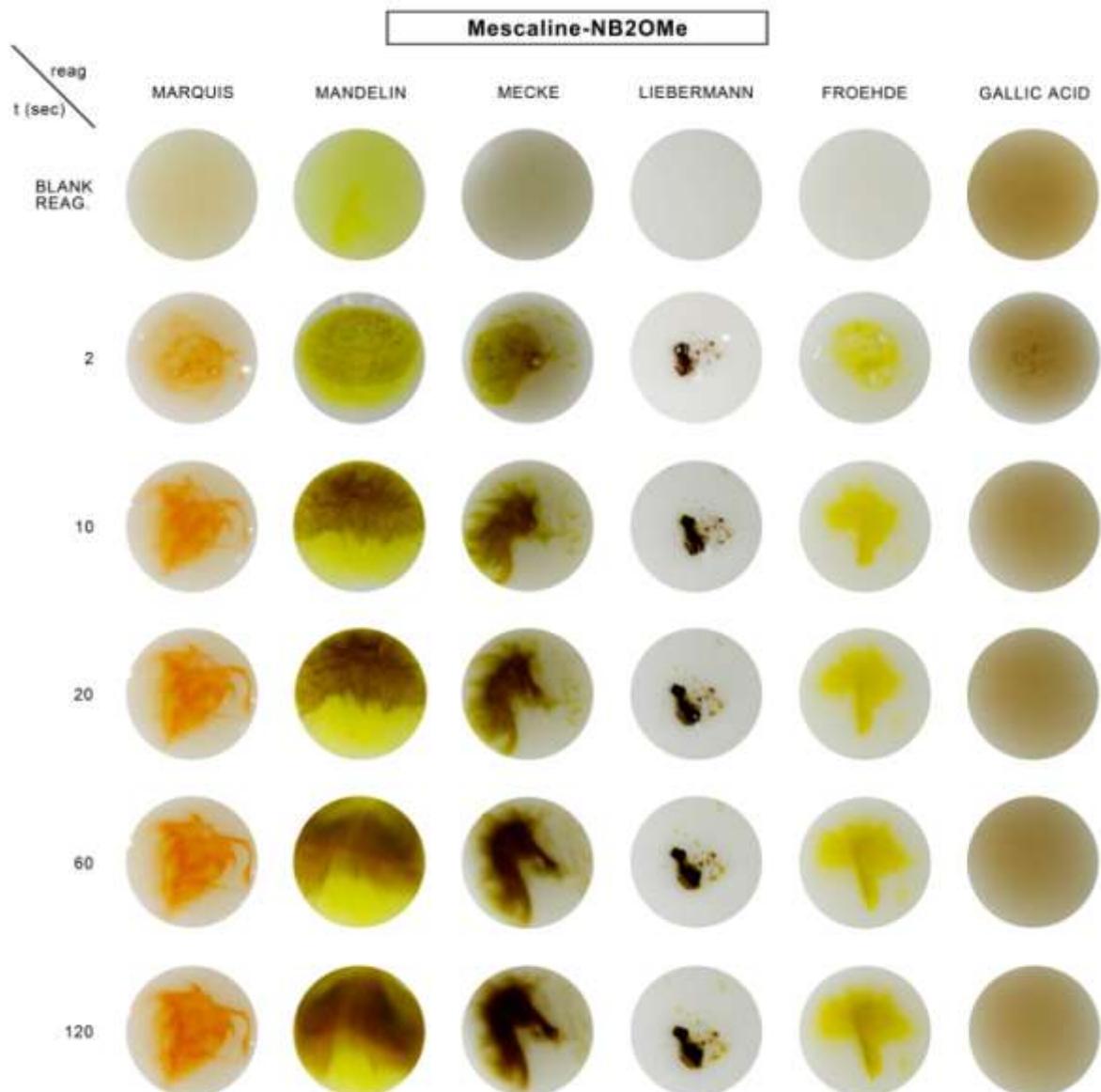
8.31. Escaline



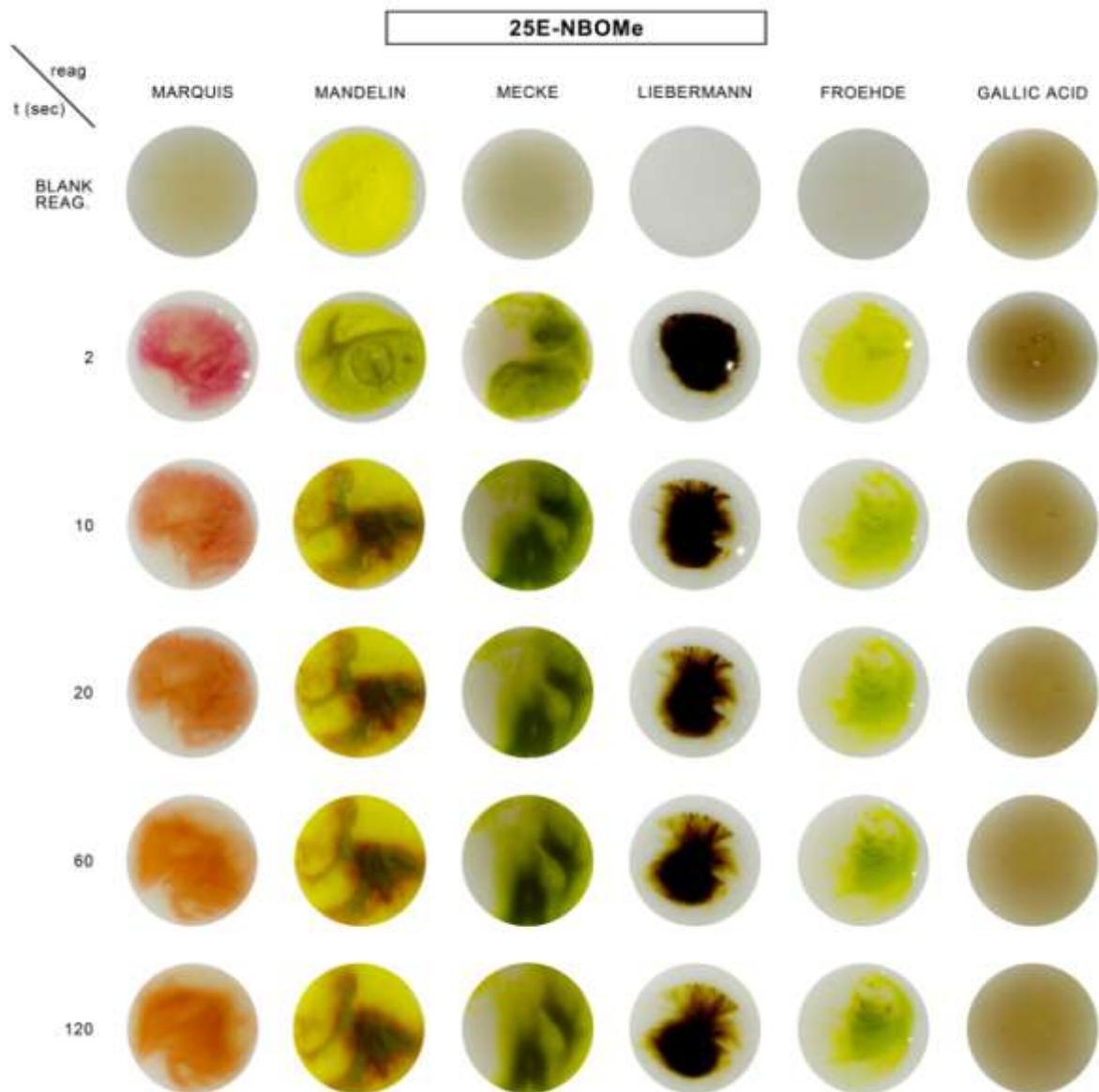
8.32. 4-ethylephedrine



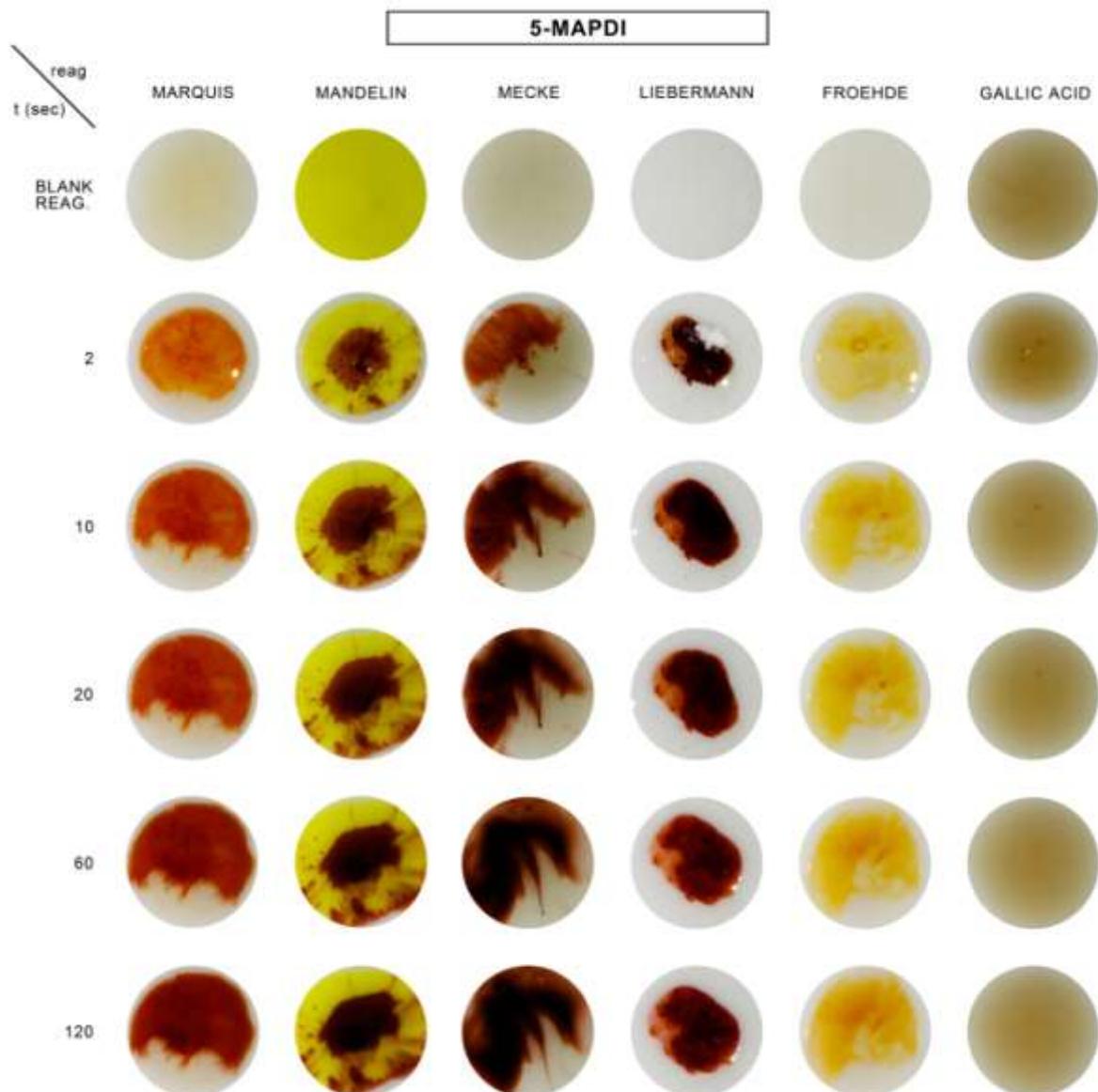
8.33. Mescaline-NB2OMe



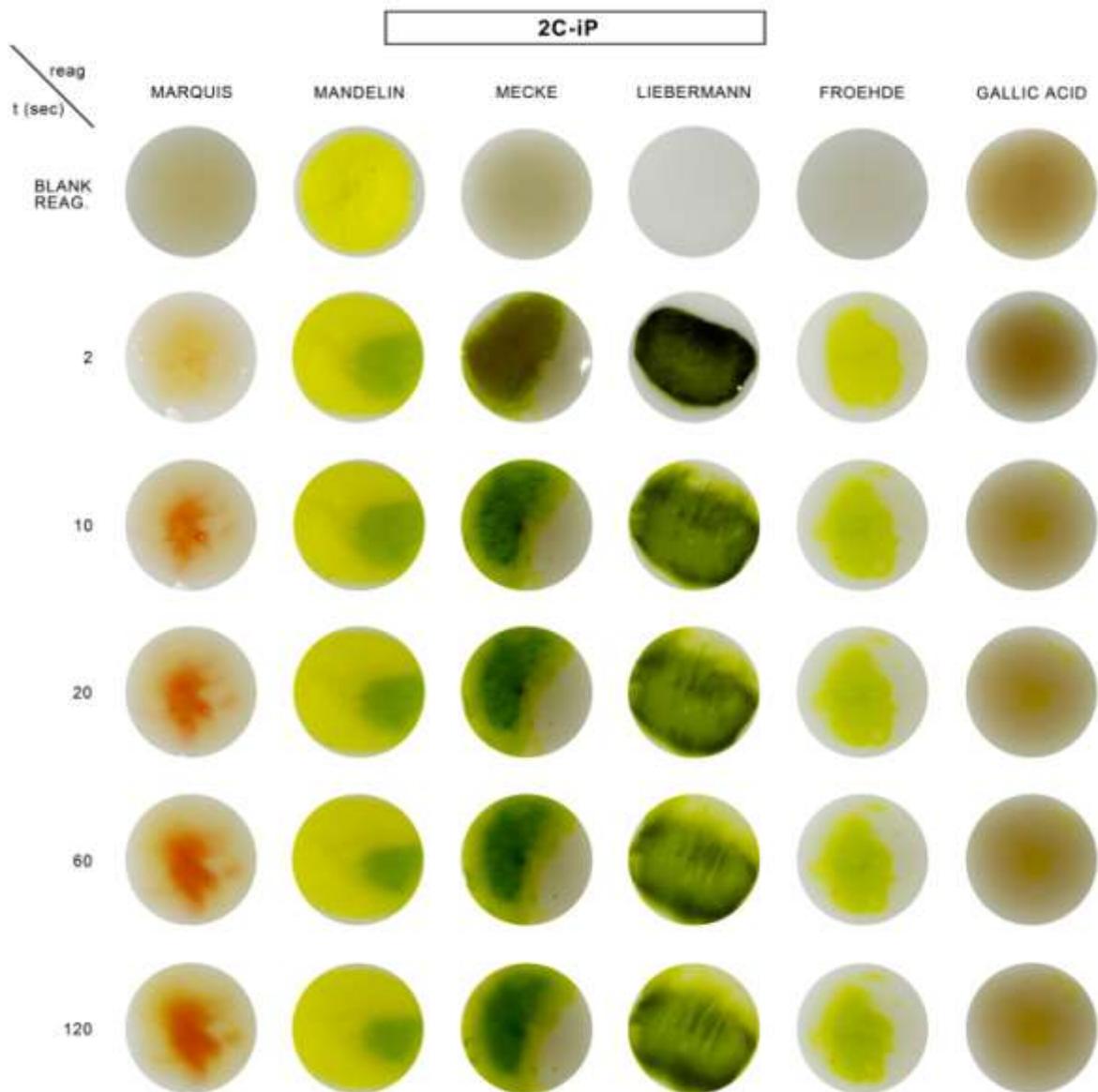
8.34. 25E-NBOMe



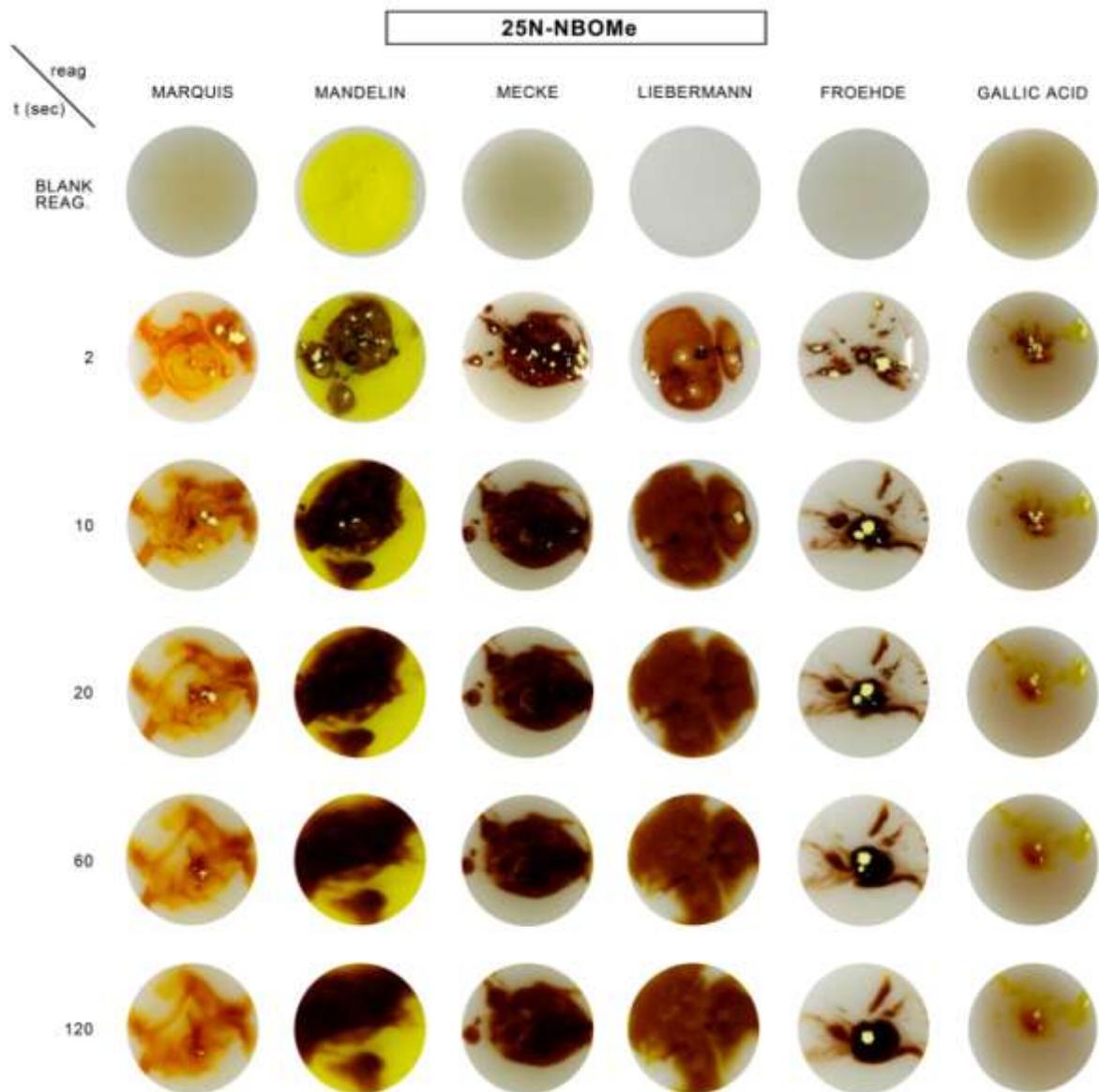
8.35. 5-MAPDI



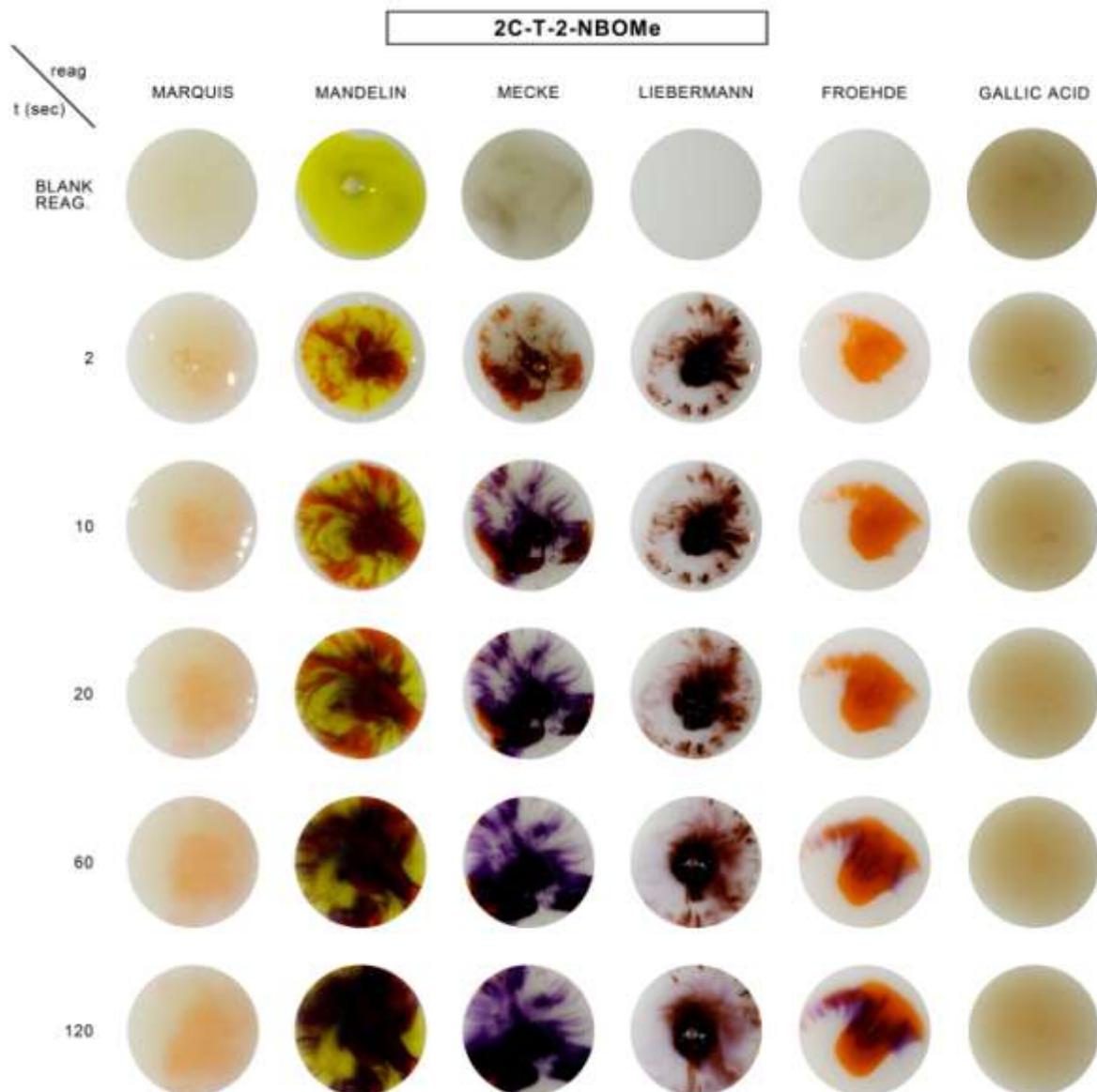
8.36. 2C-iP



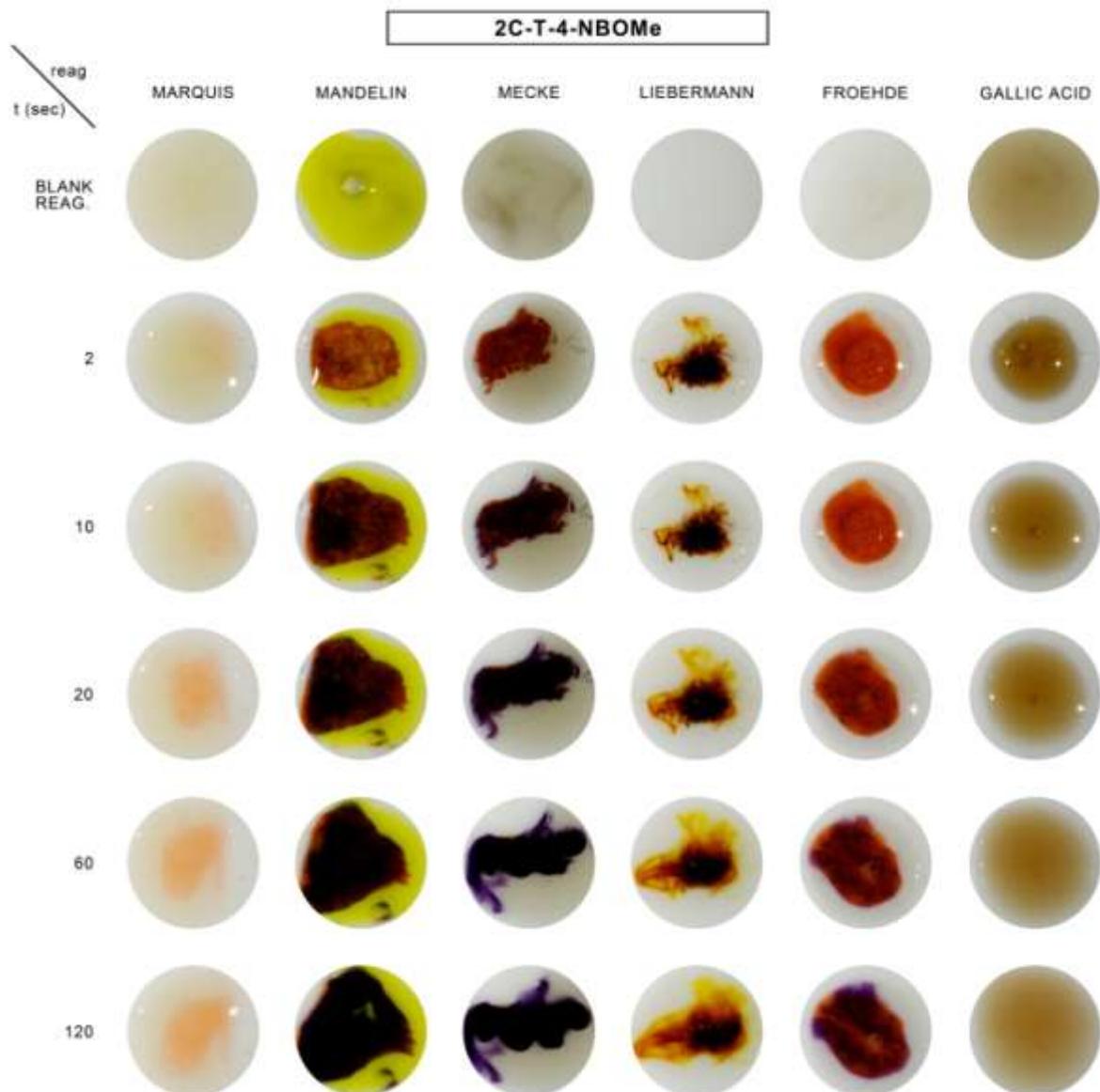
8.37. 25N-NBOMe



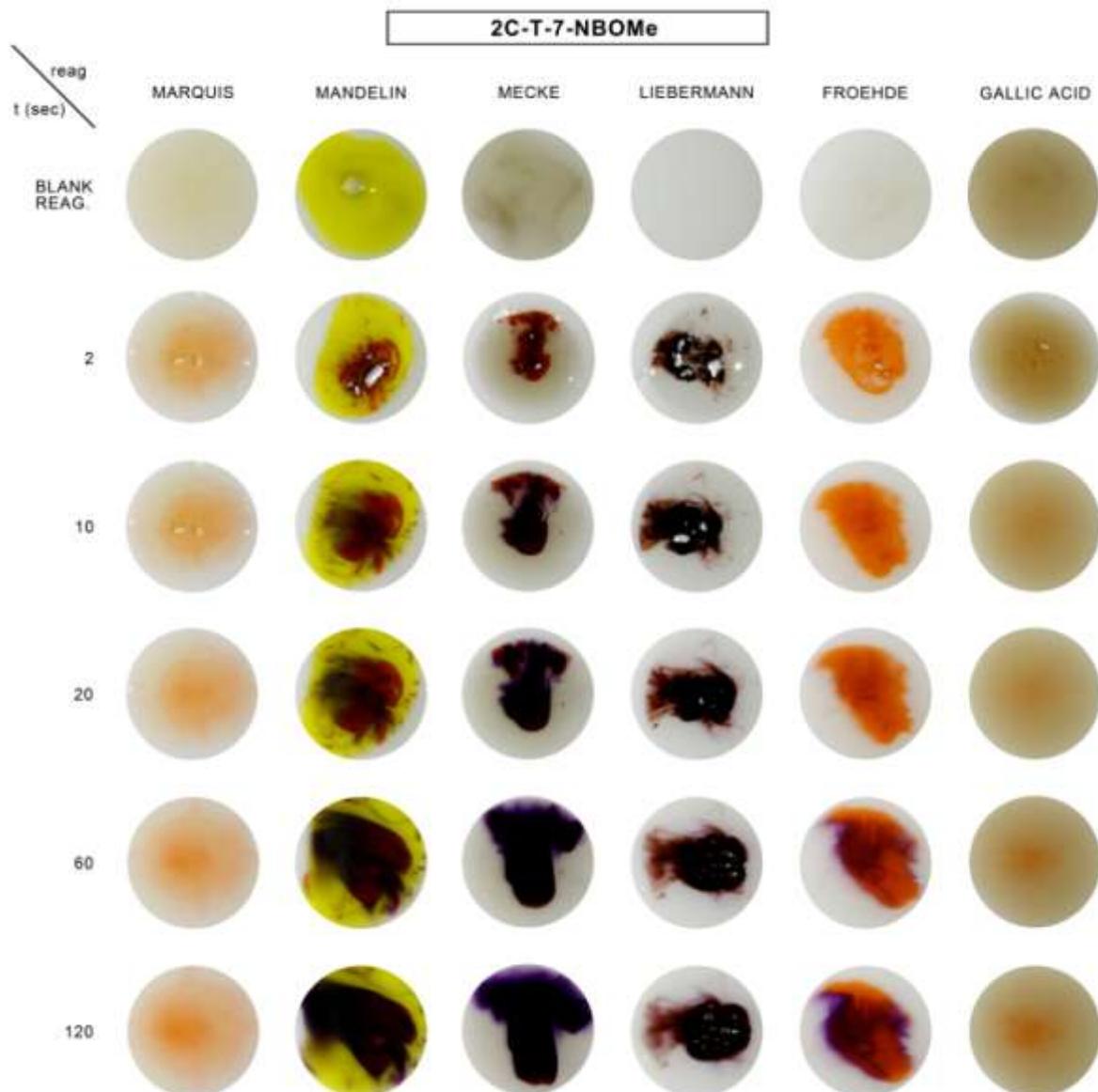
8.38. 2C-T-2-NBOMe



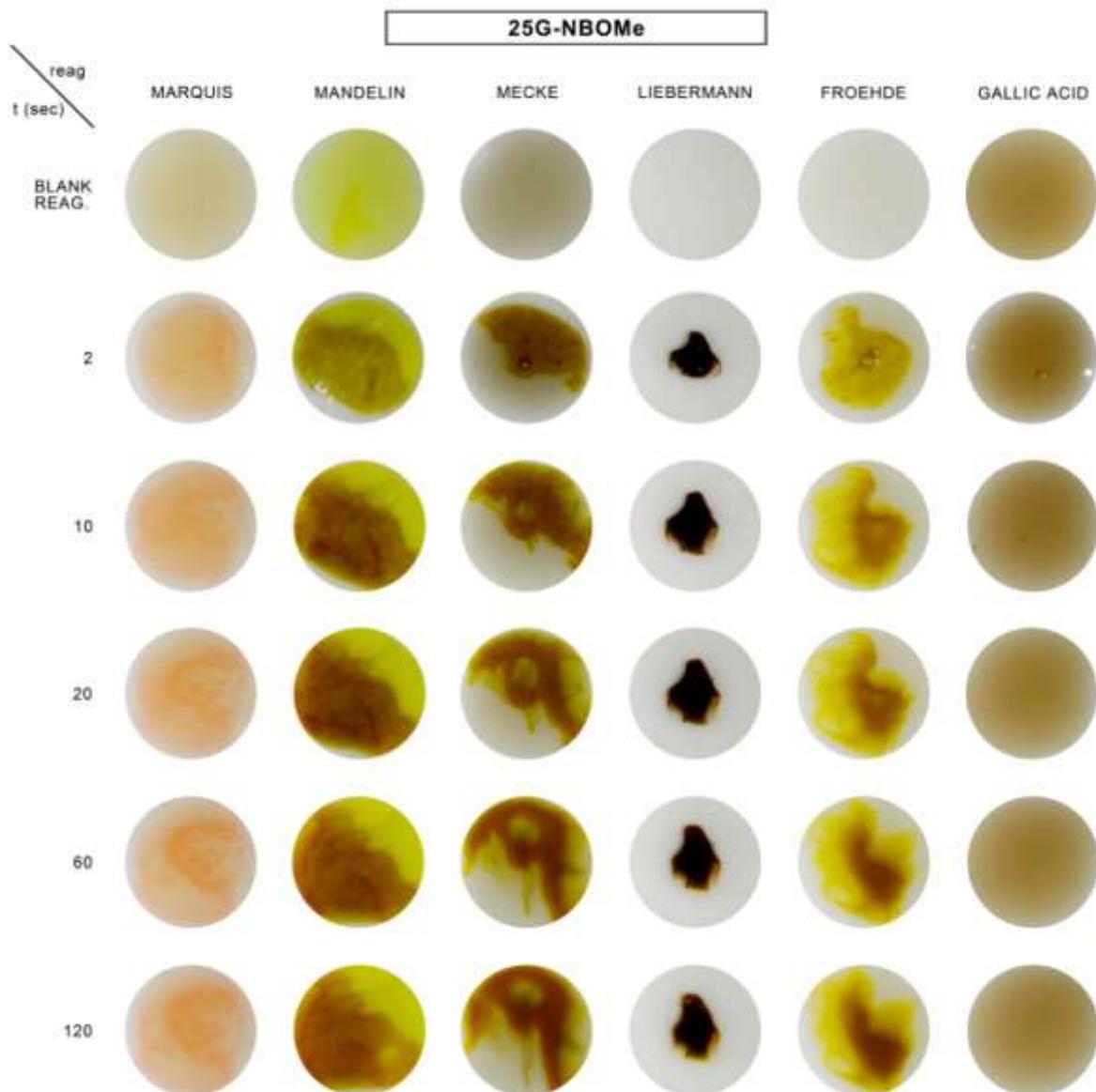
8.39. 2C-T-4-NBOMe



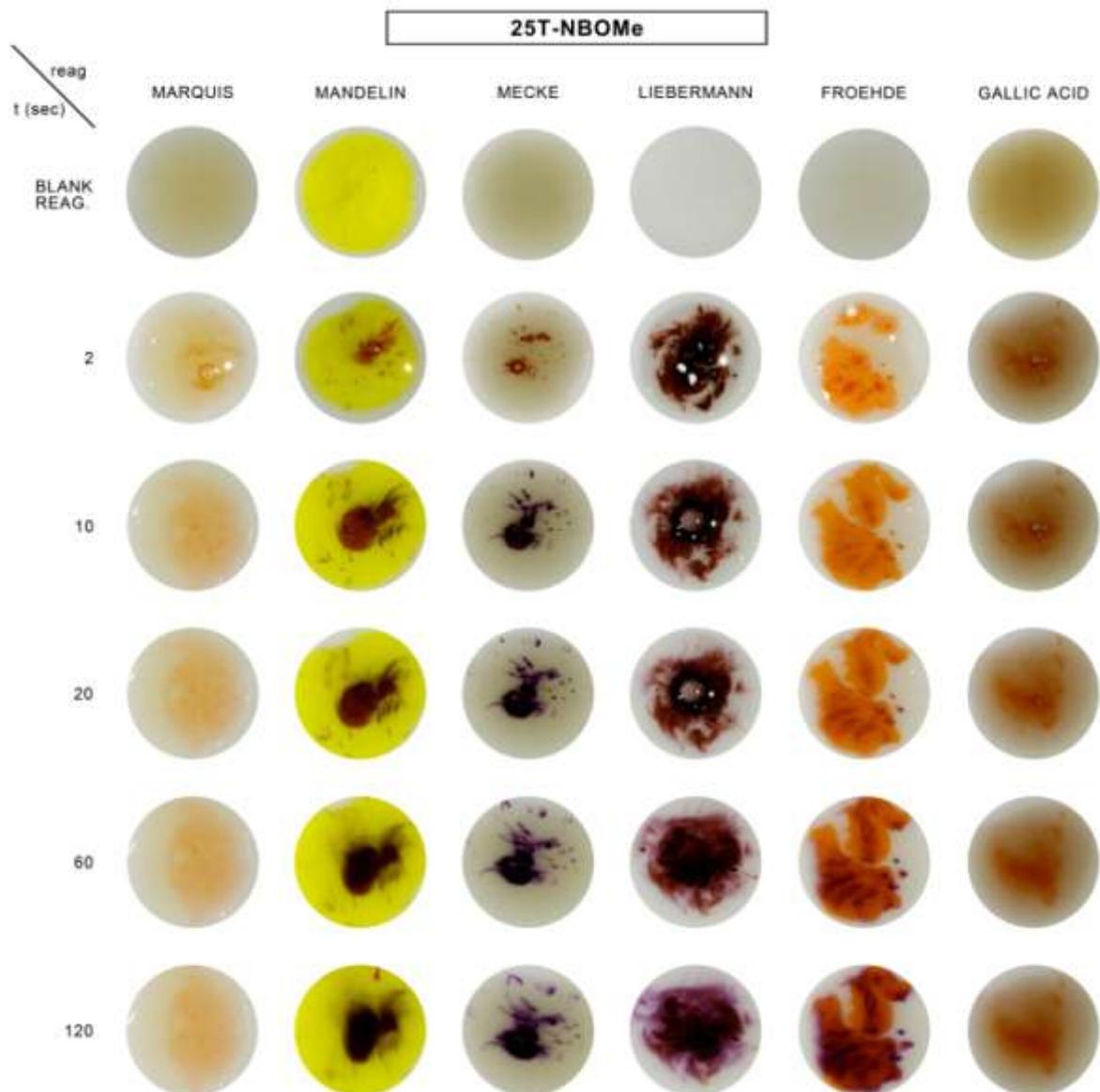
8.40. 2C-T-7-NBOMe



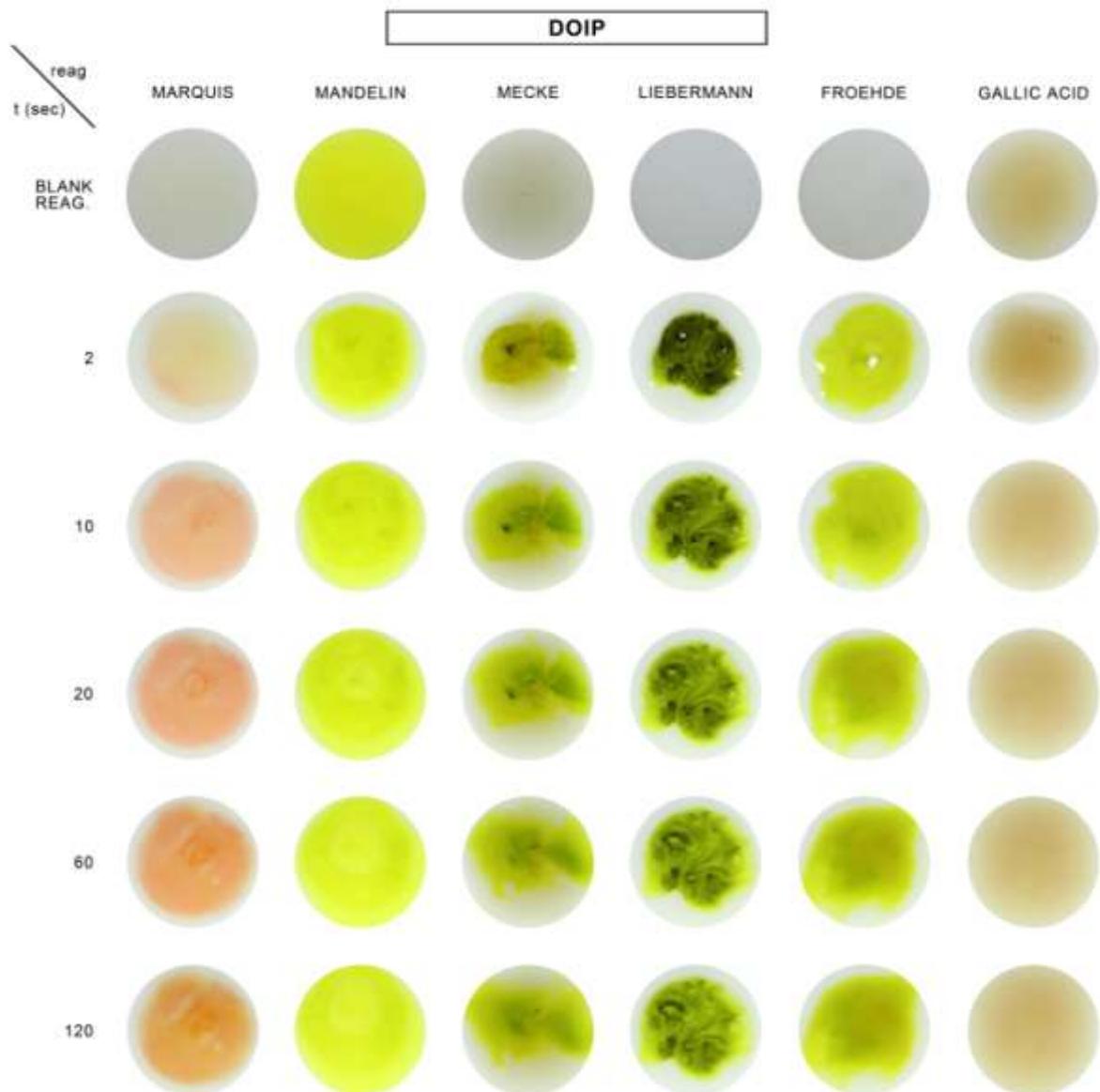
8.41. 25G-NBOMe



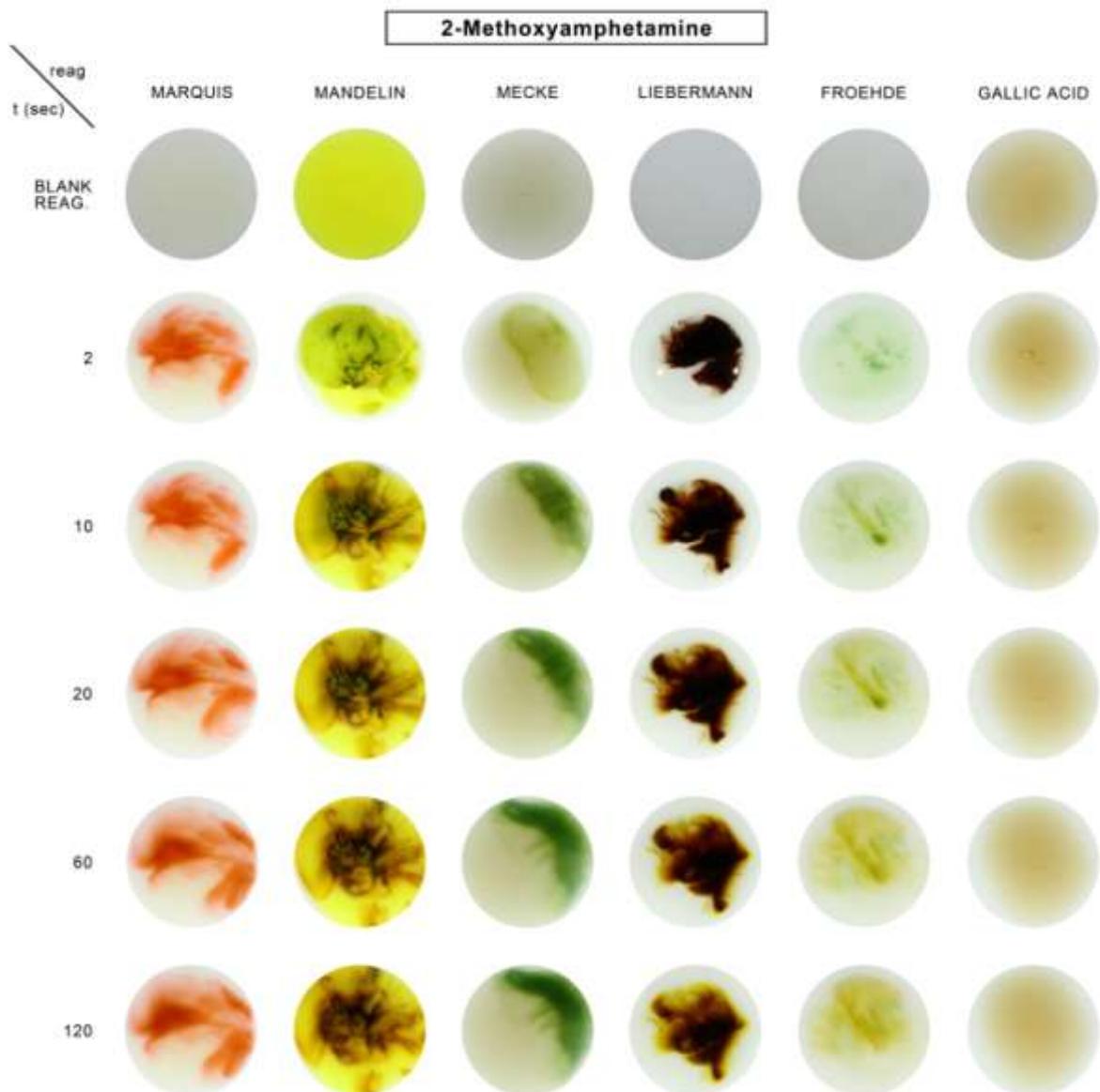
8.42. 25T-NBOMe



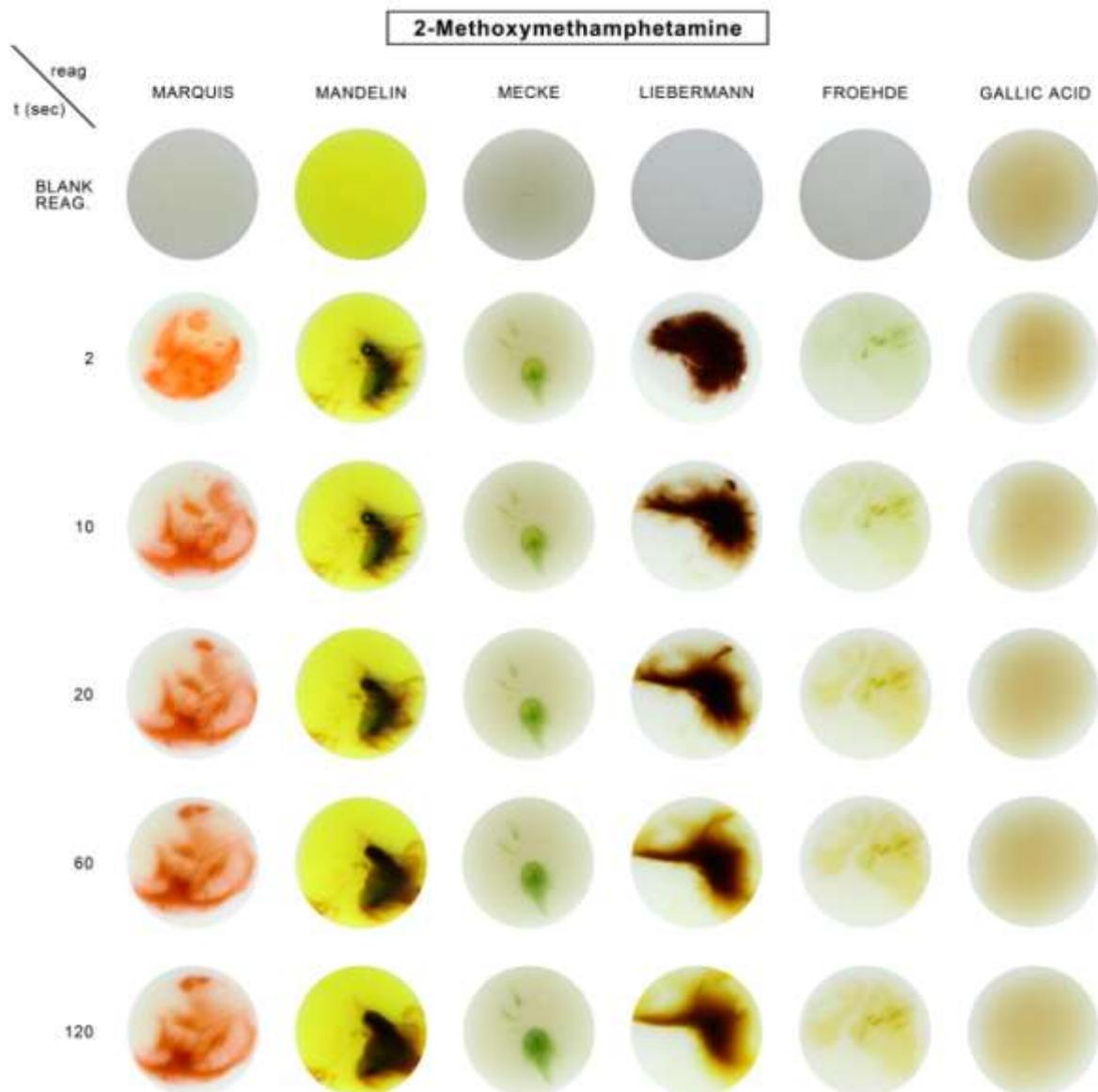
8.43. DOIP



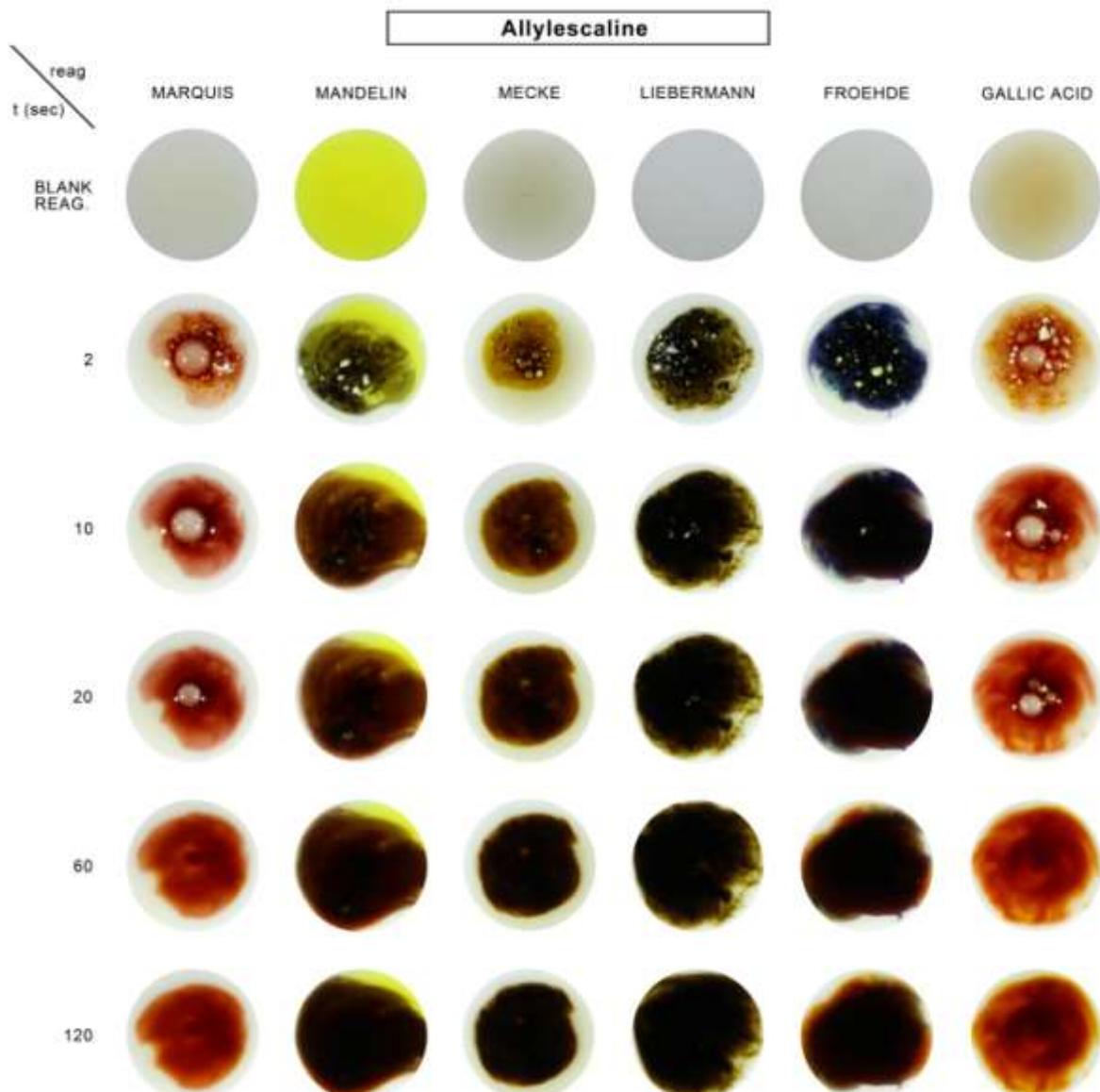
8.44. 2-Methoxyamphetamine



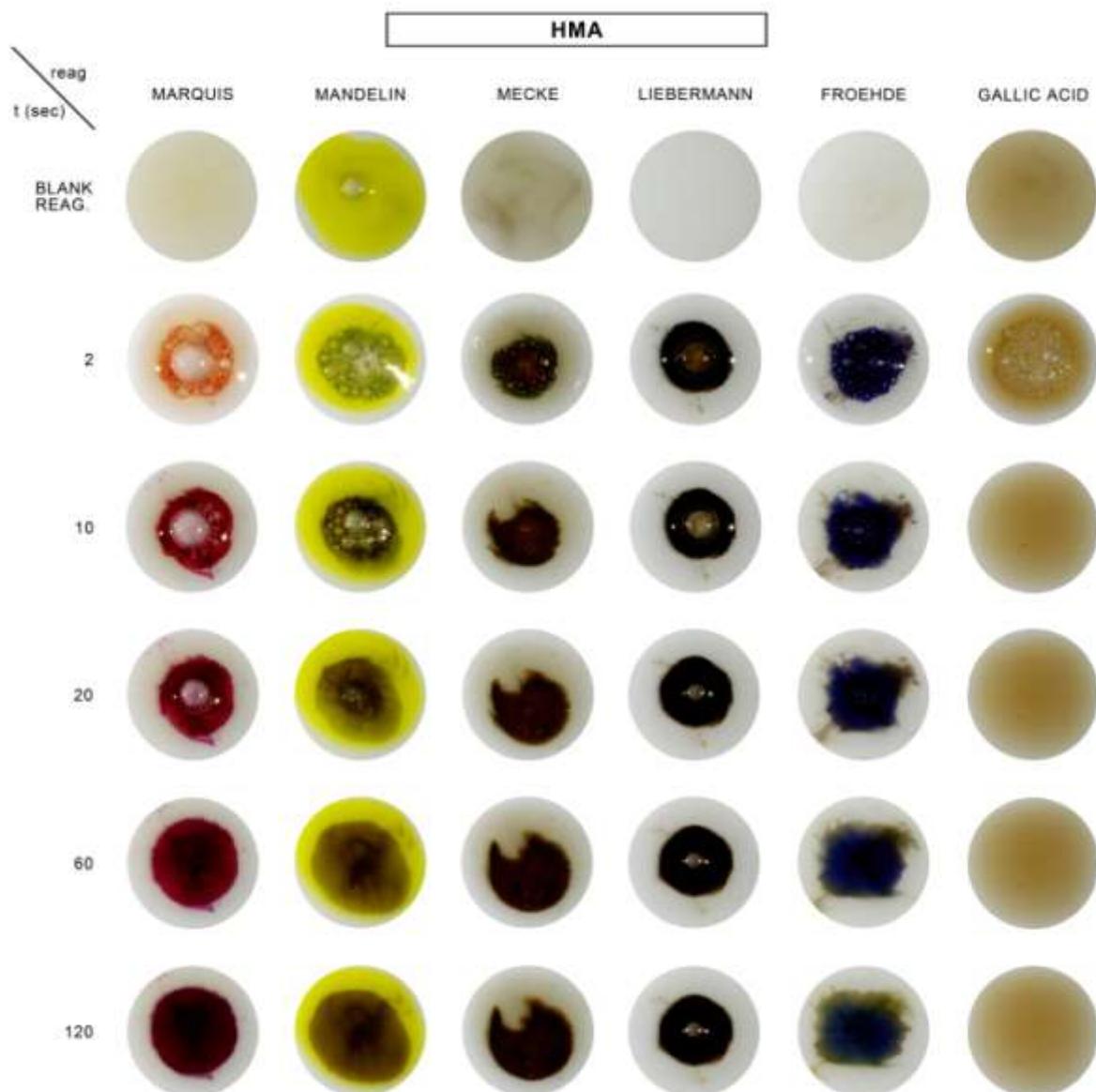
8.45. 2-Methoxymethamphetamine



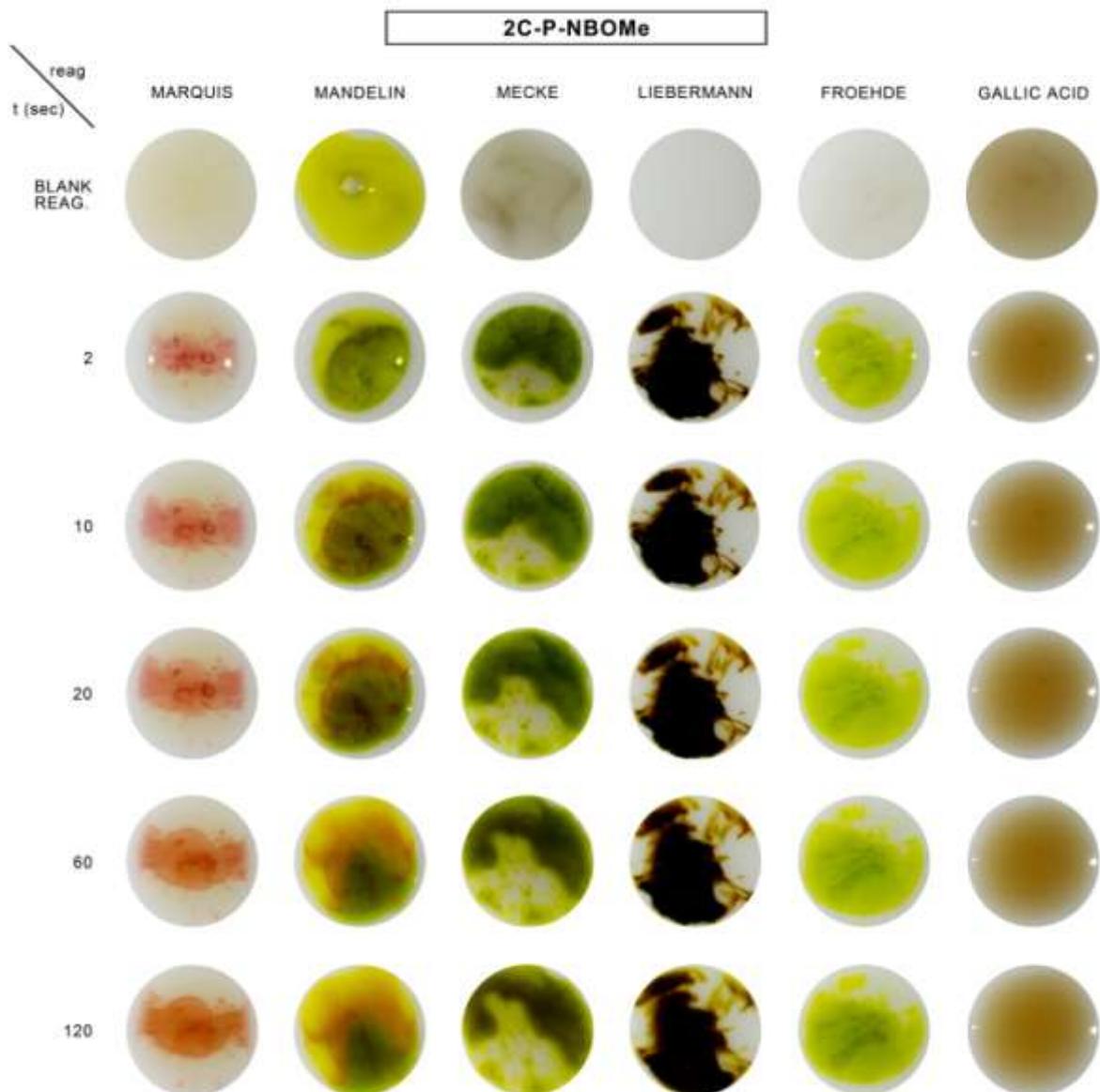
8.46. Allylescaline



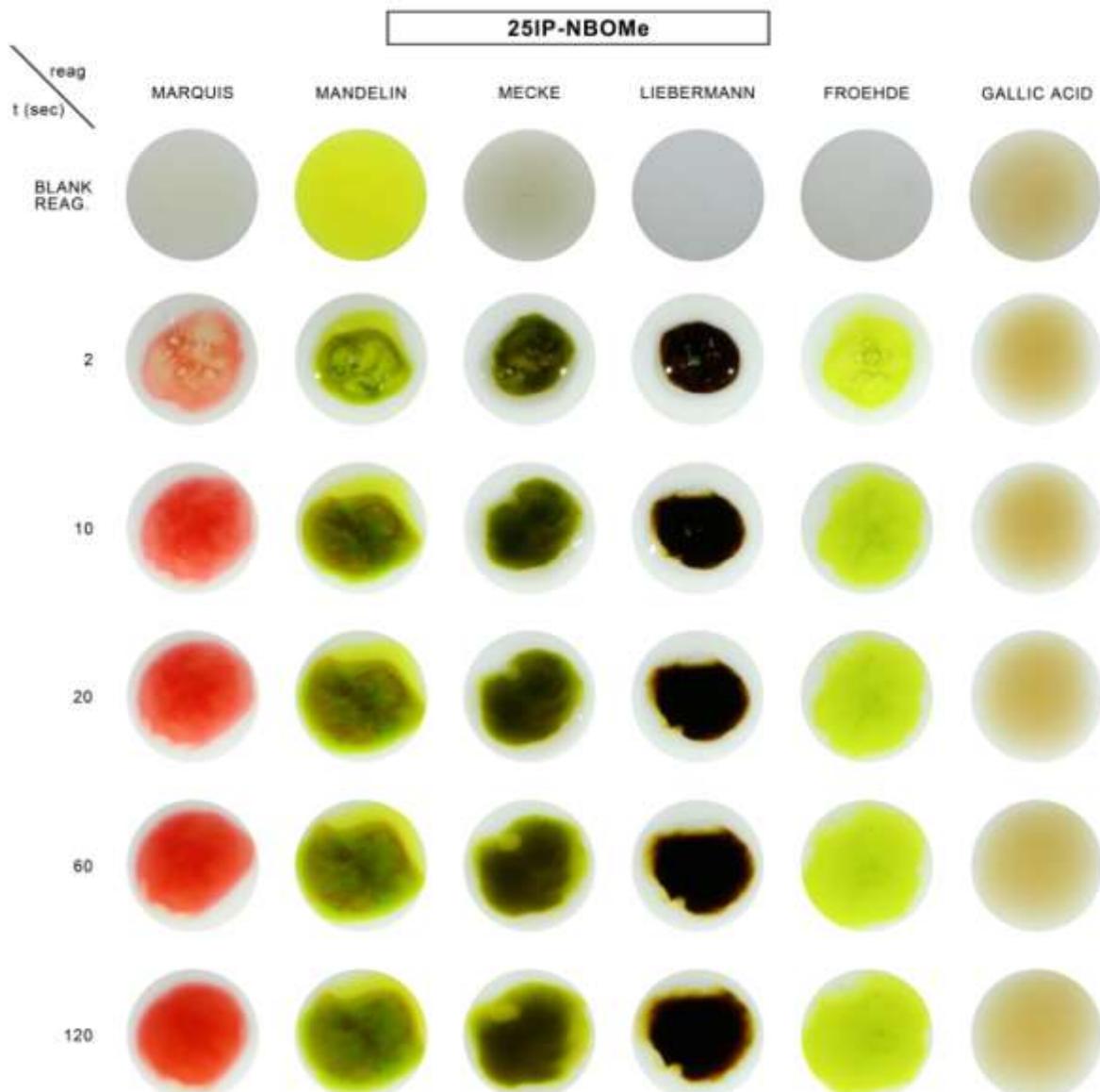
8.47. HMA



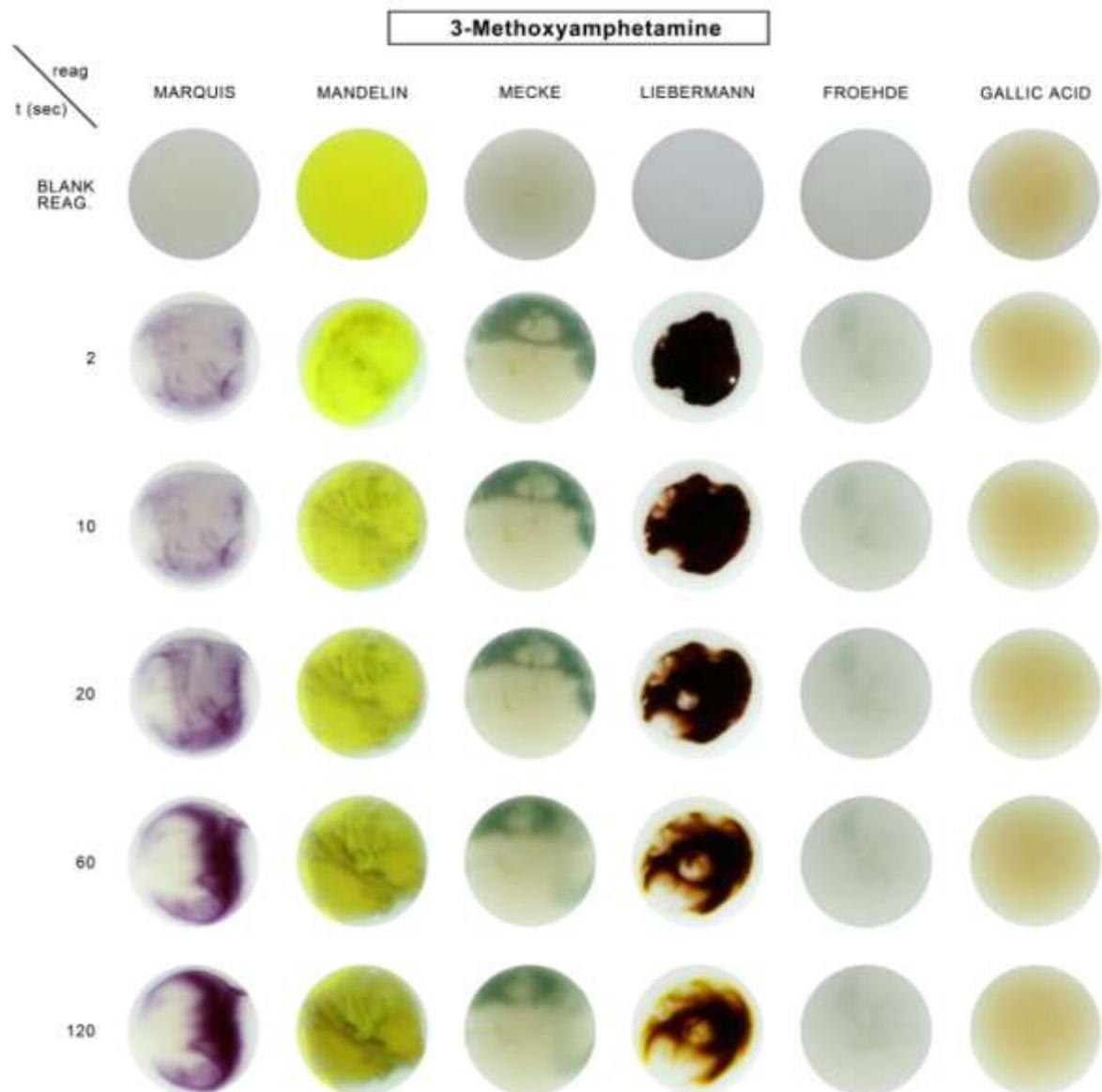
8.48. 2C-P-NBOMe



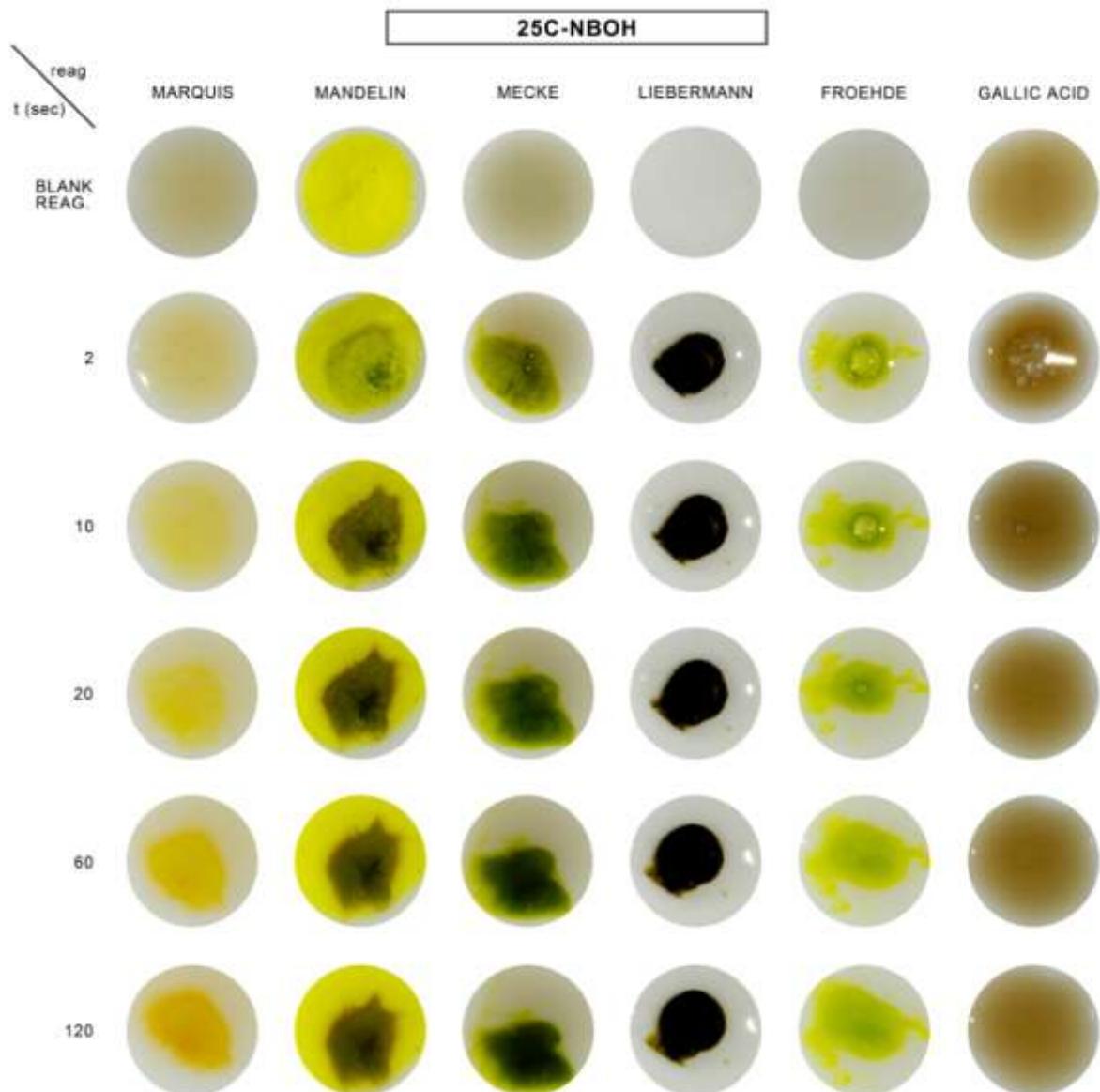
8.49. 25IP-NBOMe



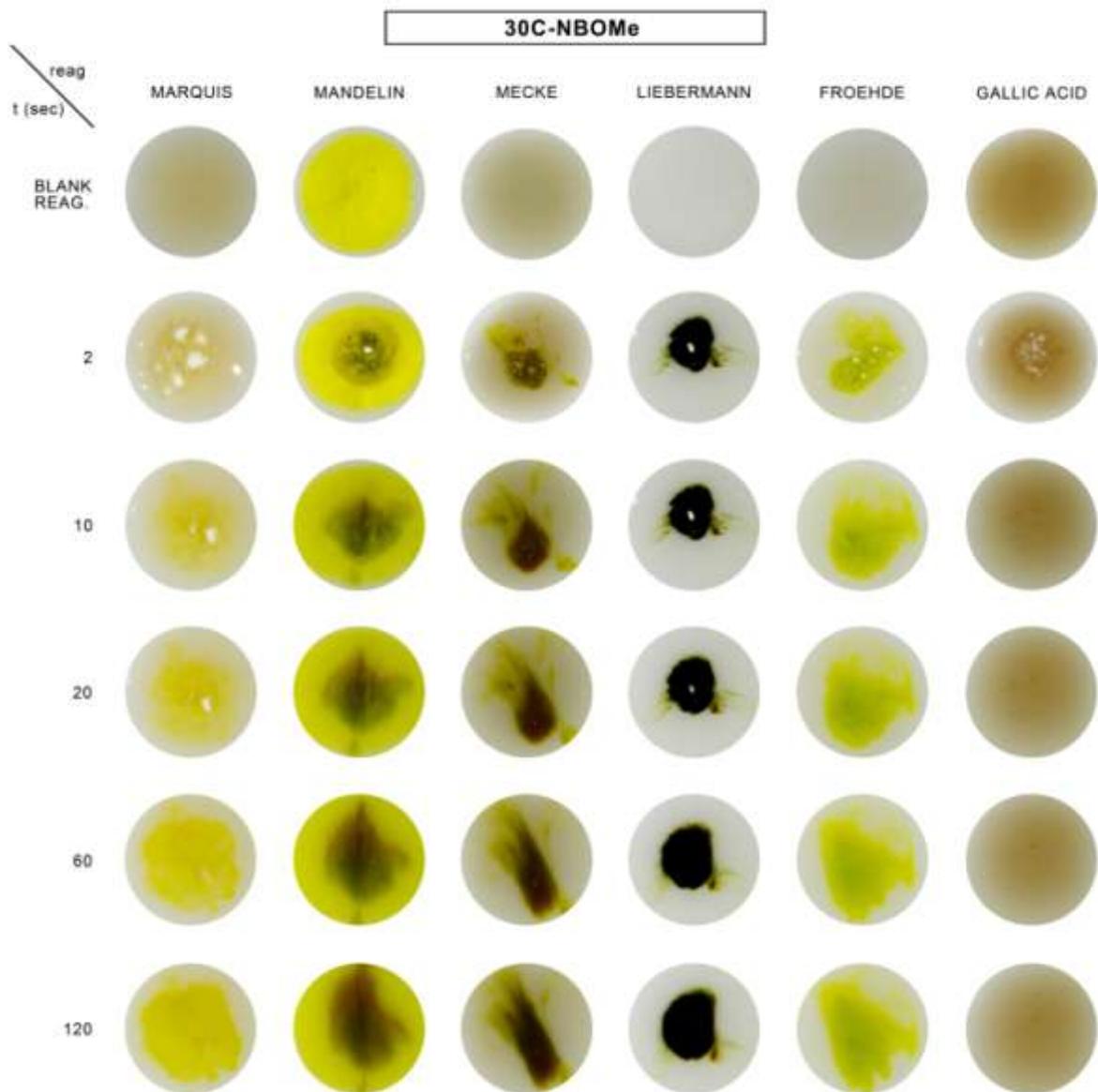
8.50. 3-Methoxyamphetamine



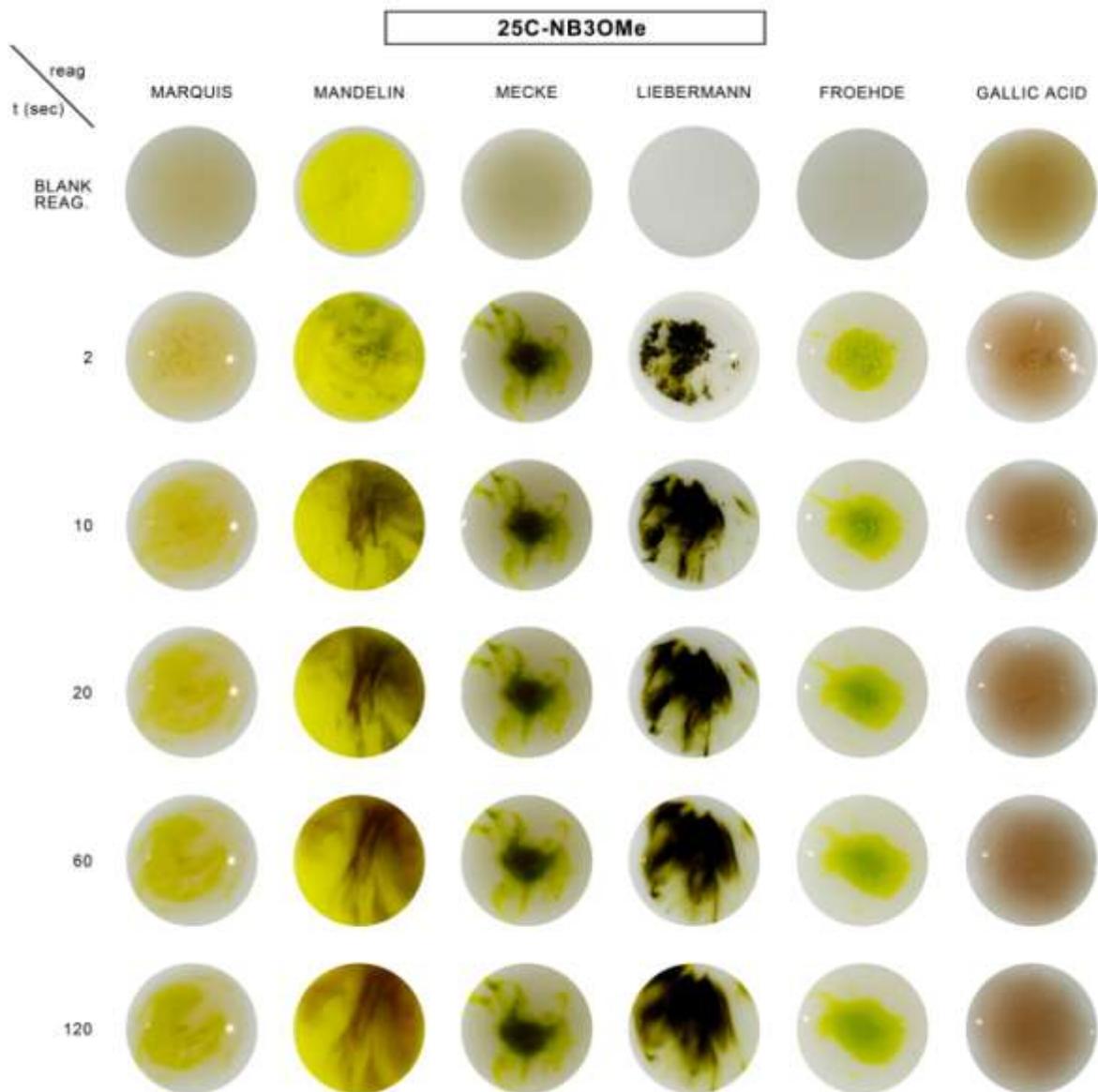
8.51. 25C-NBOH



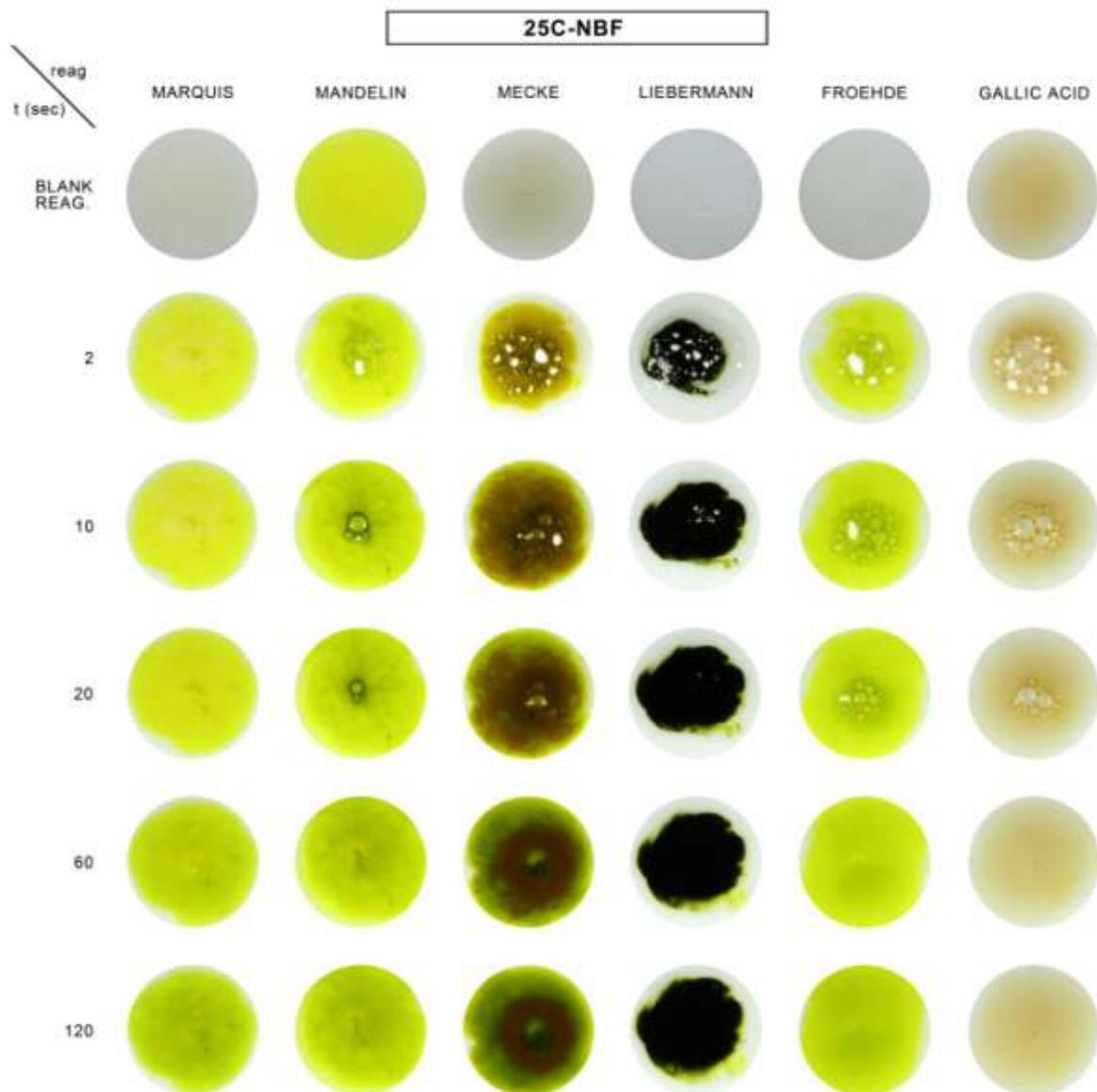
8.52. 30C-NBOMe



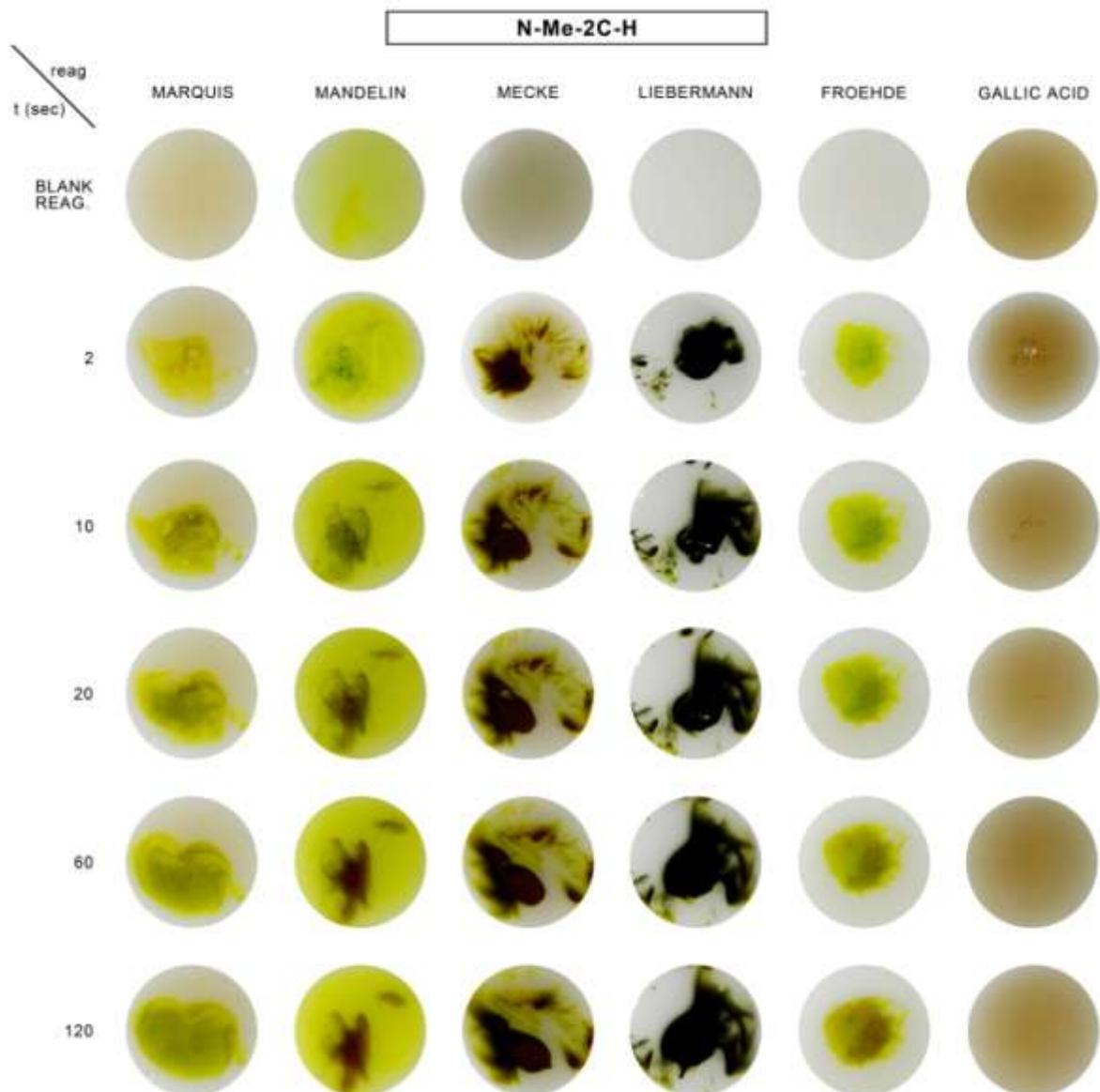
8.53. 25C-NB3OMe



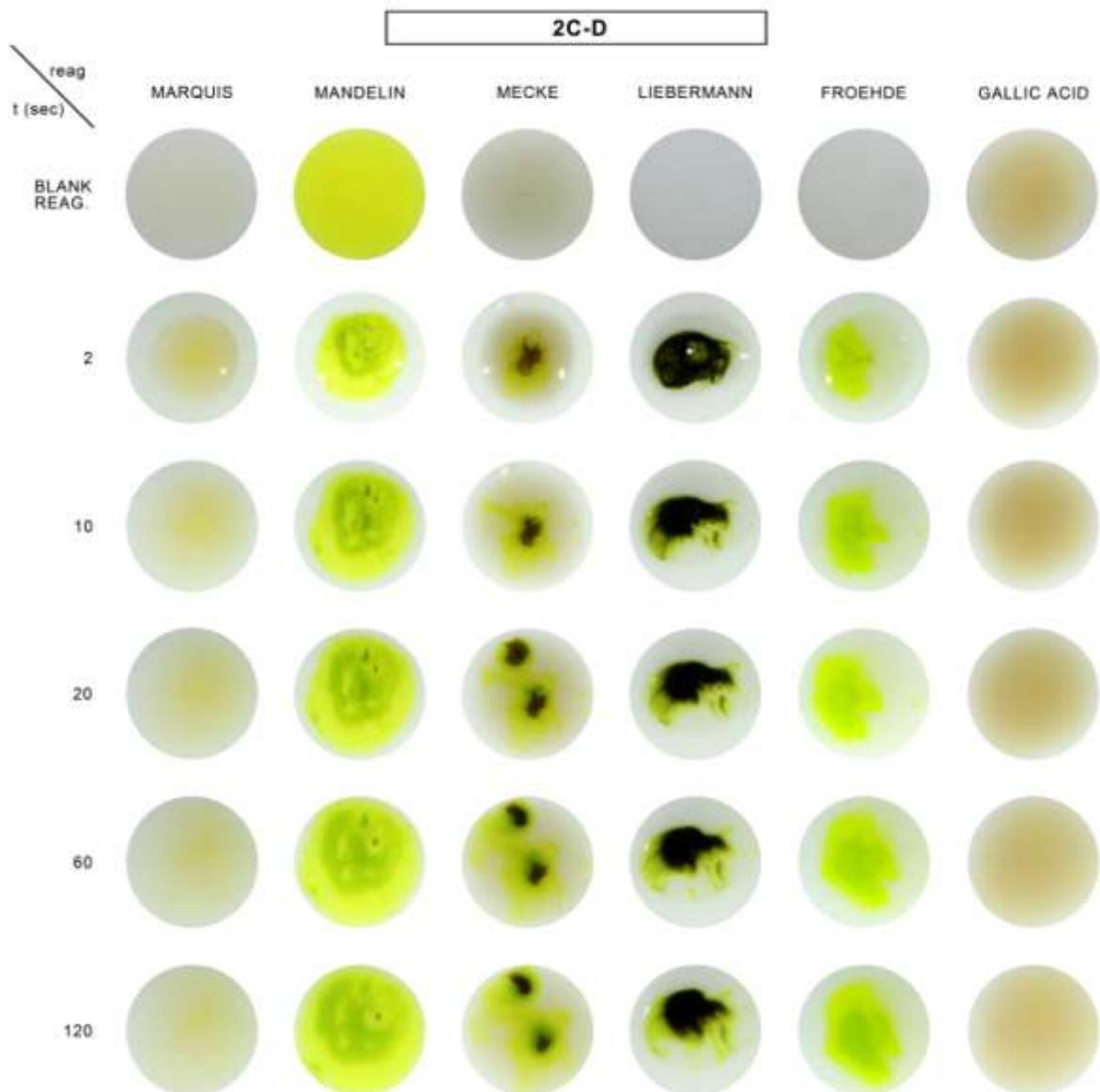
8.54. 25C-NBF



8.55. N-Me-2C-H

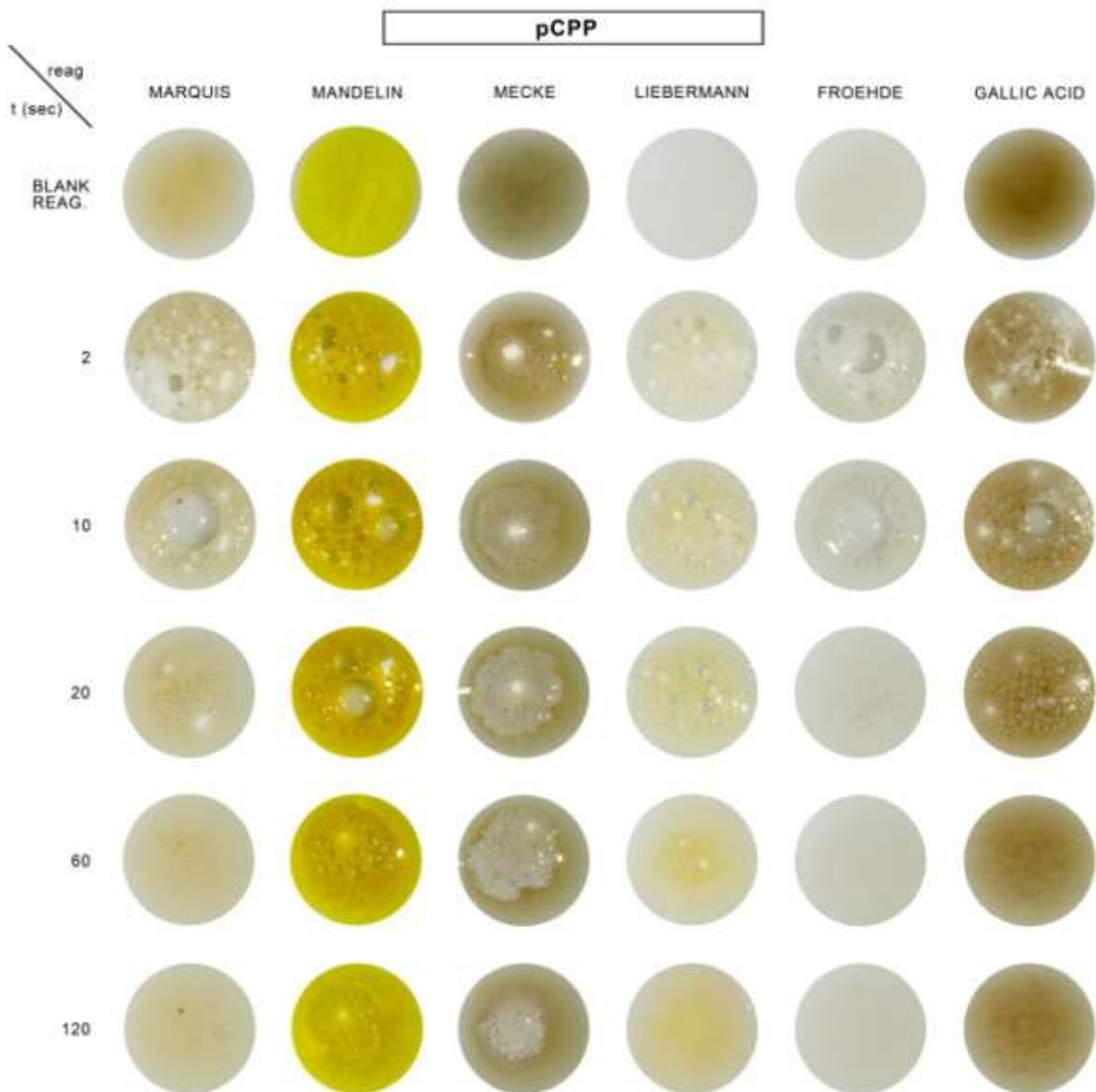


8.56. 2C-D

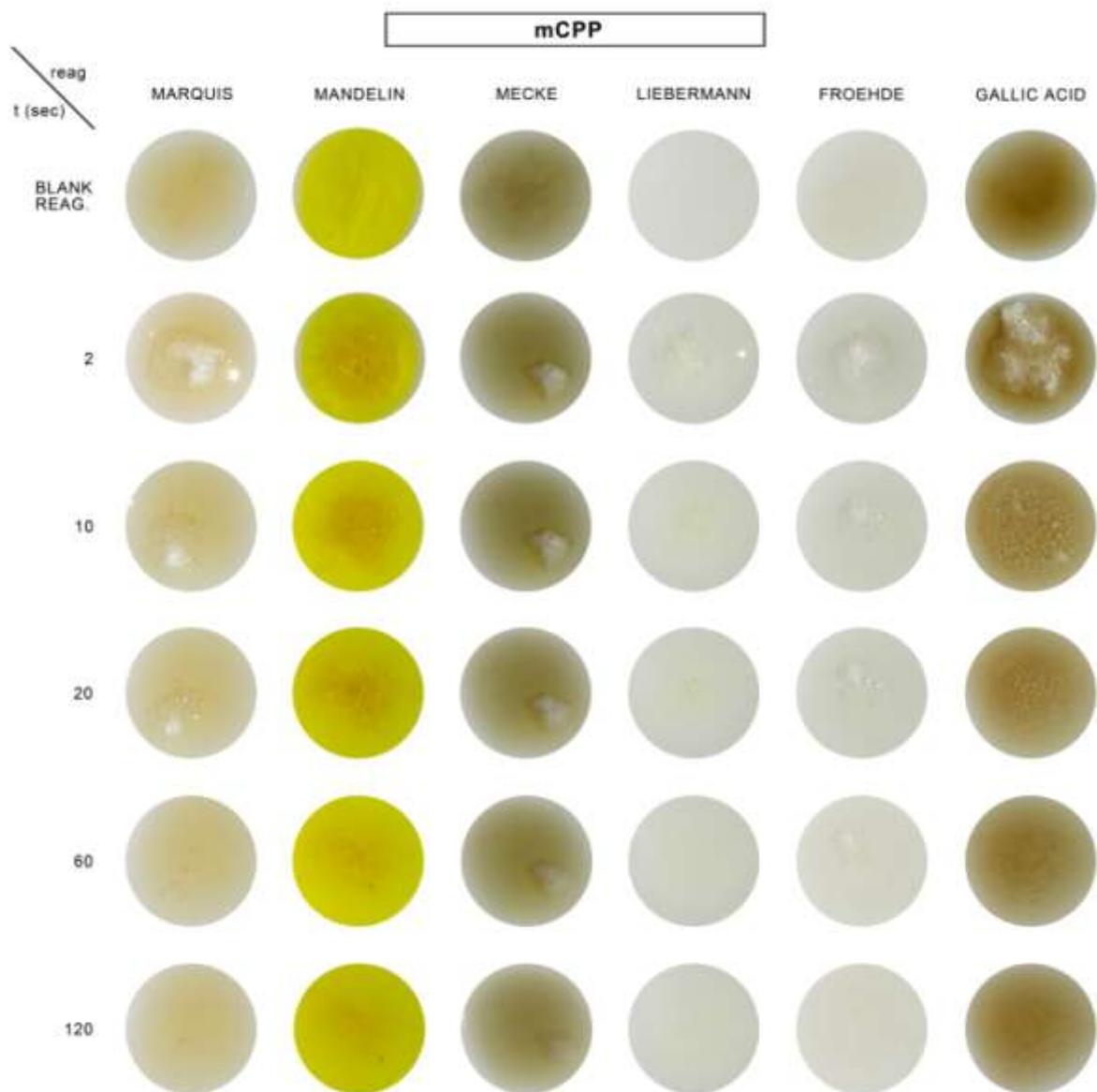


9. Piperazine derivates

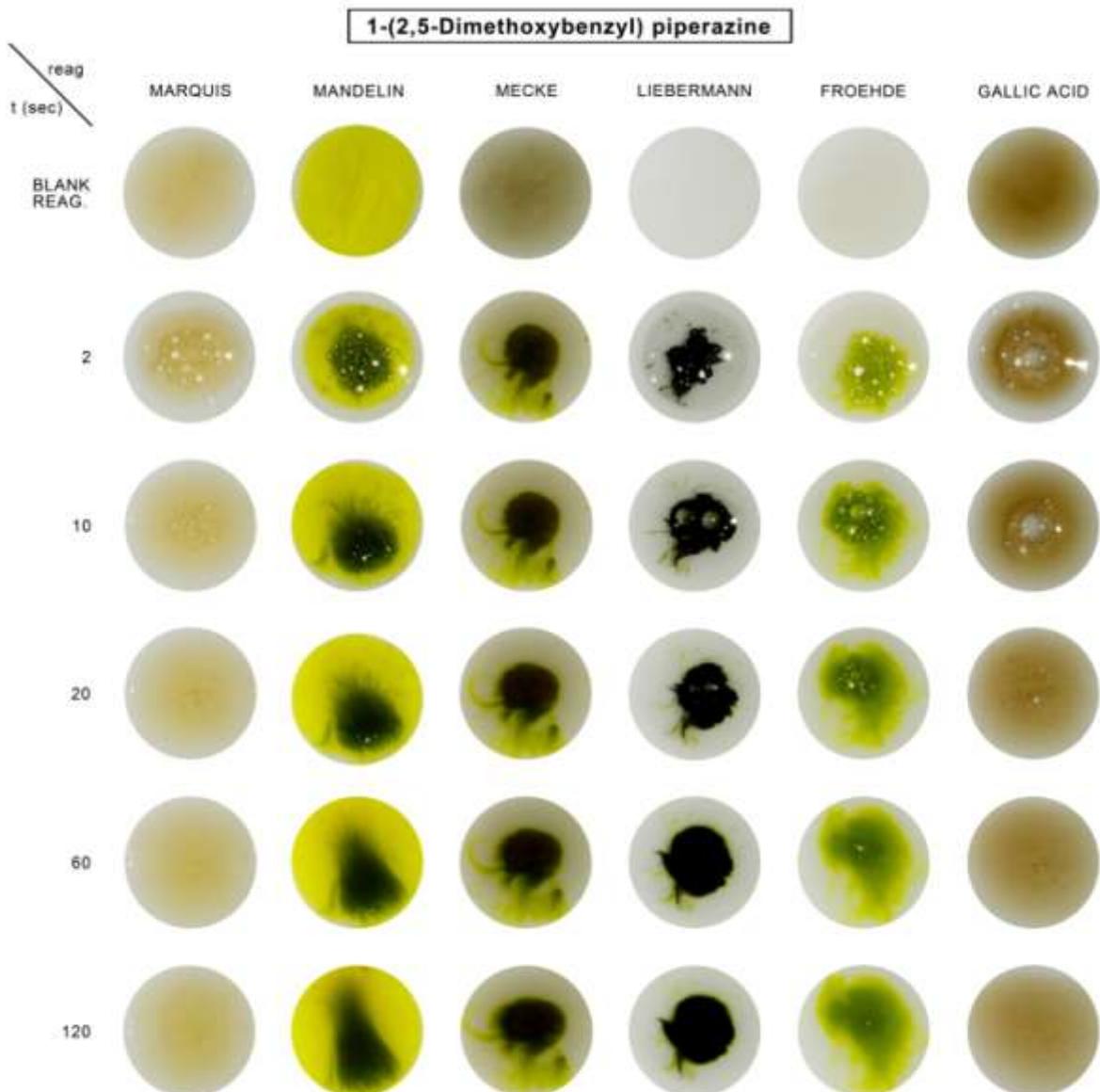
9.1. pCPP



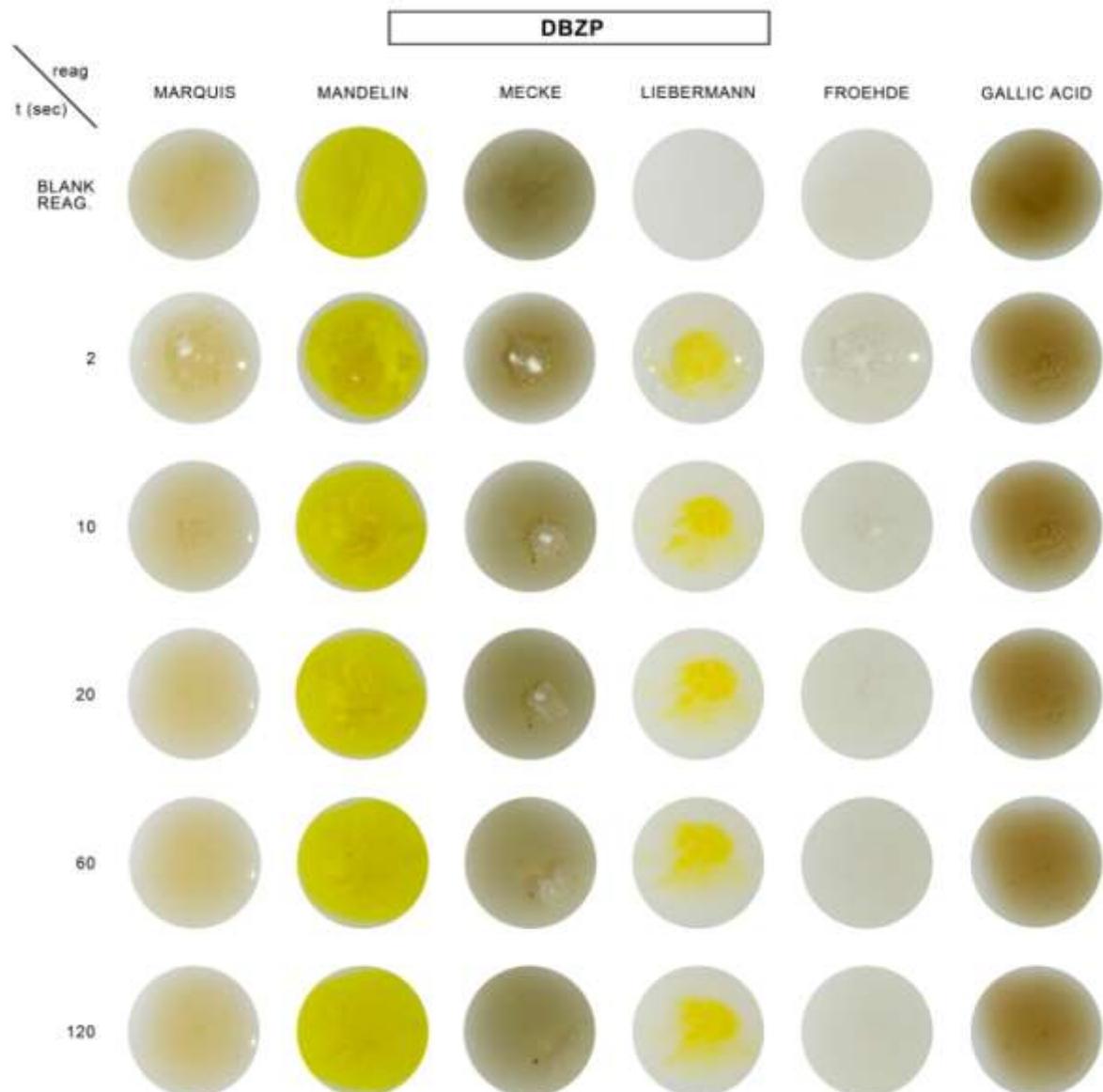
9.2. mCPP



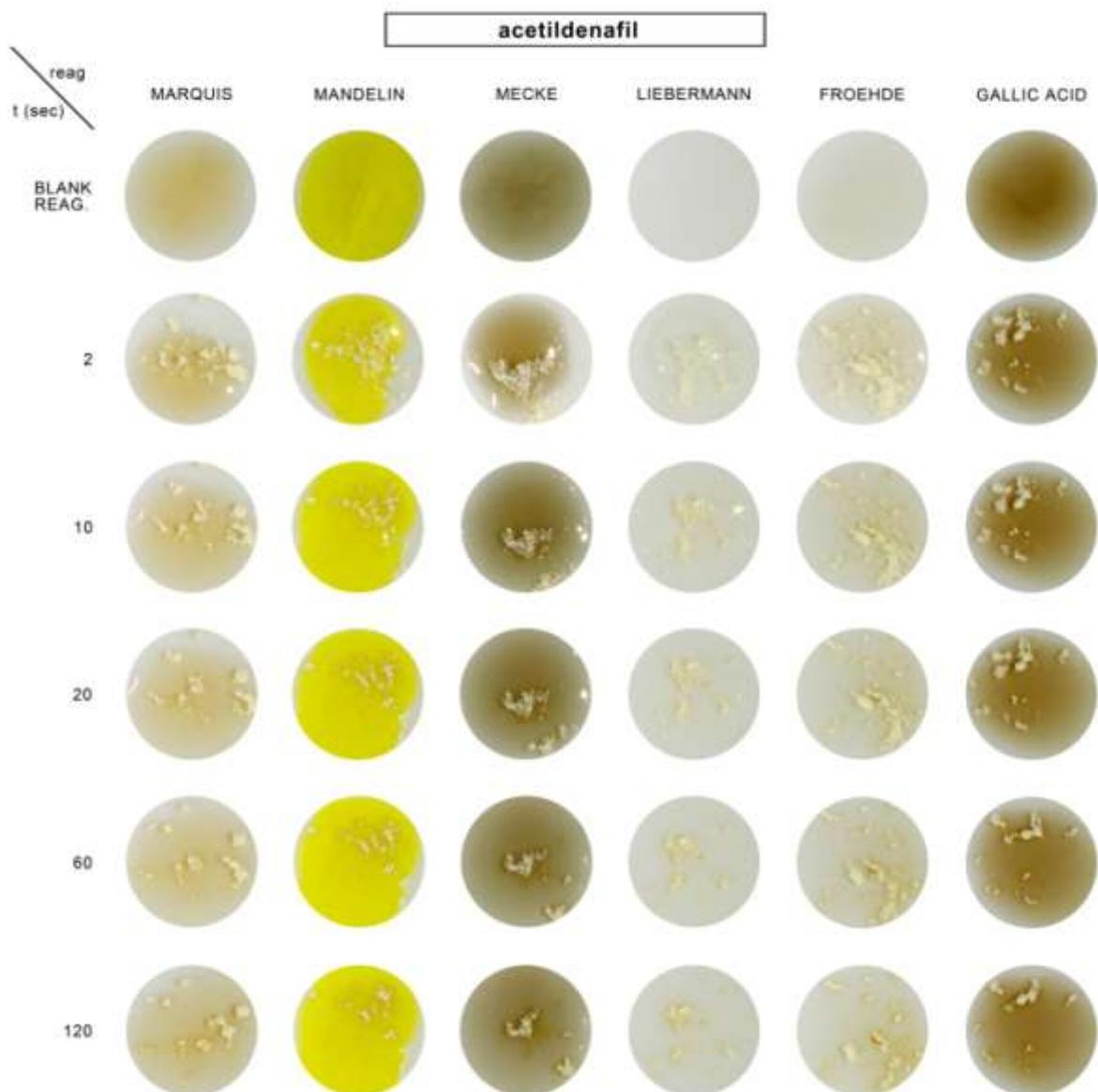
9.3. 1-(2,5-Dimethoxybenzyl) piperazine



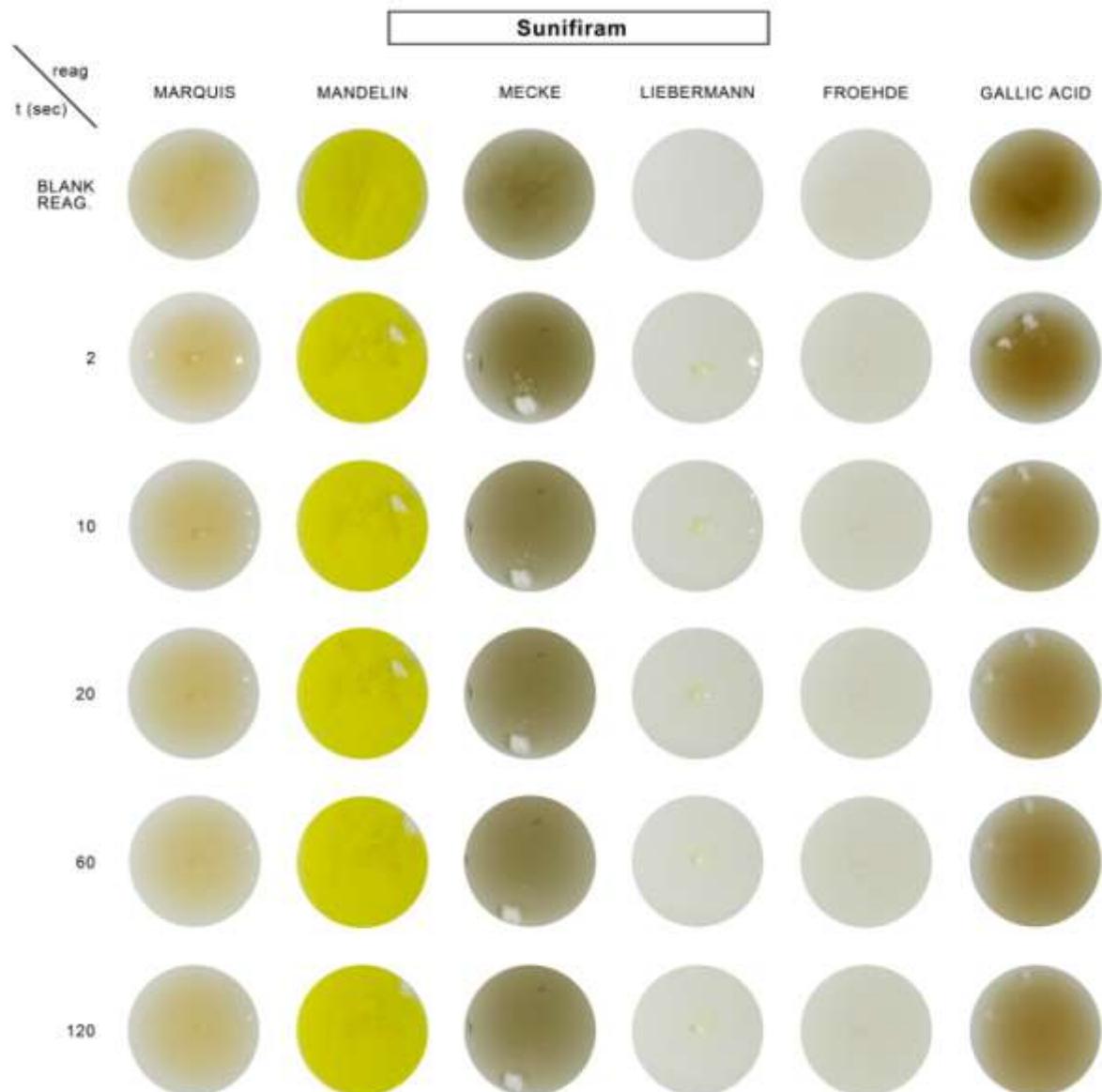
9.4. DBZP



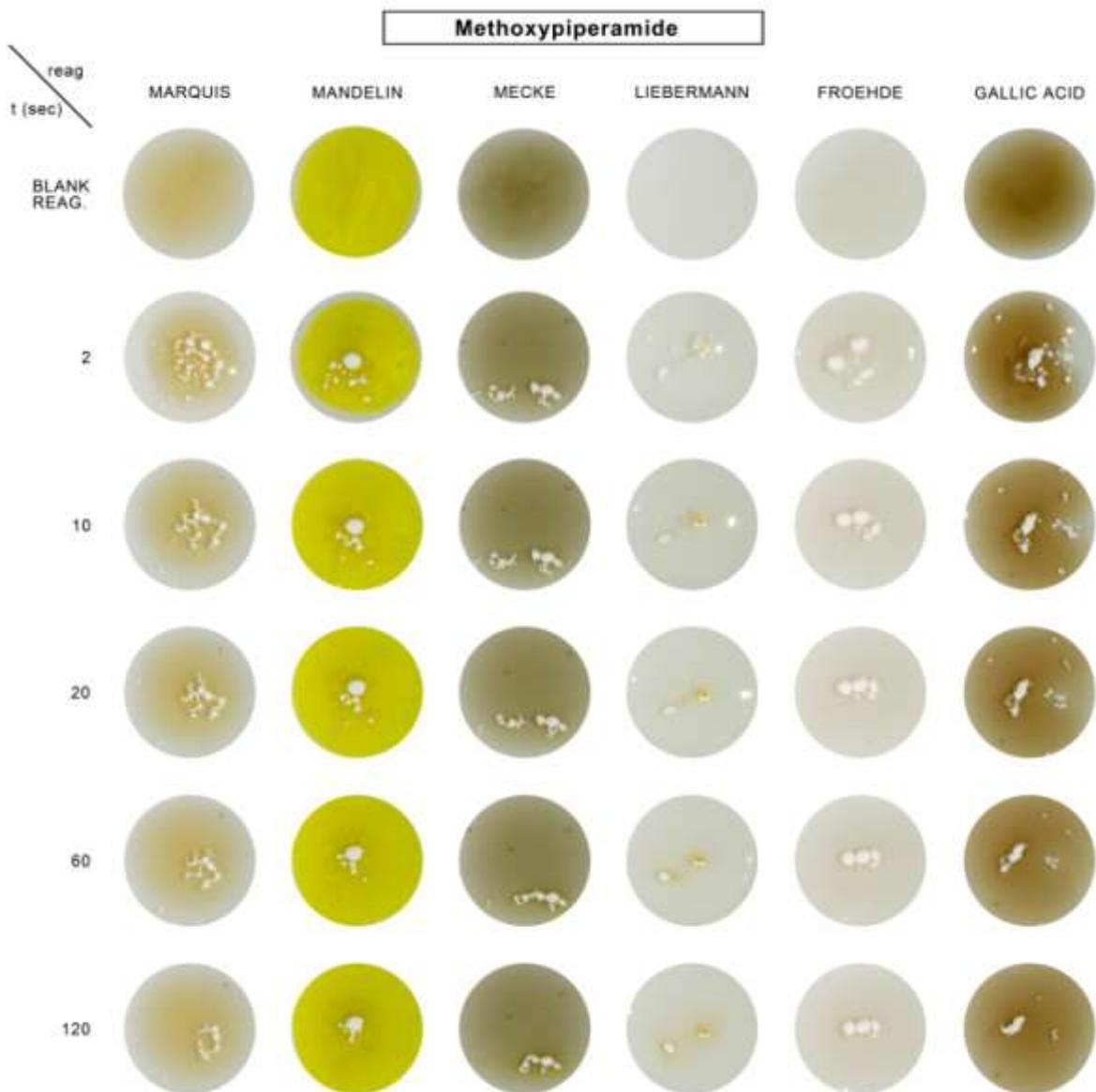
9.5. Acetildenafil



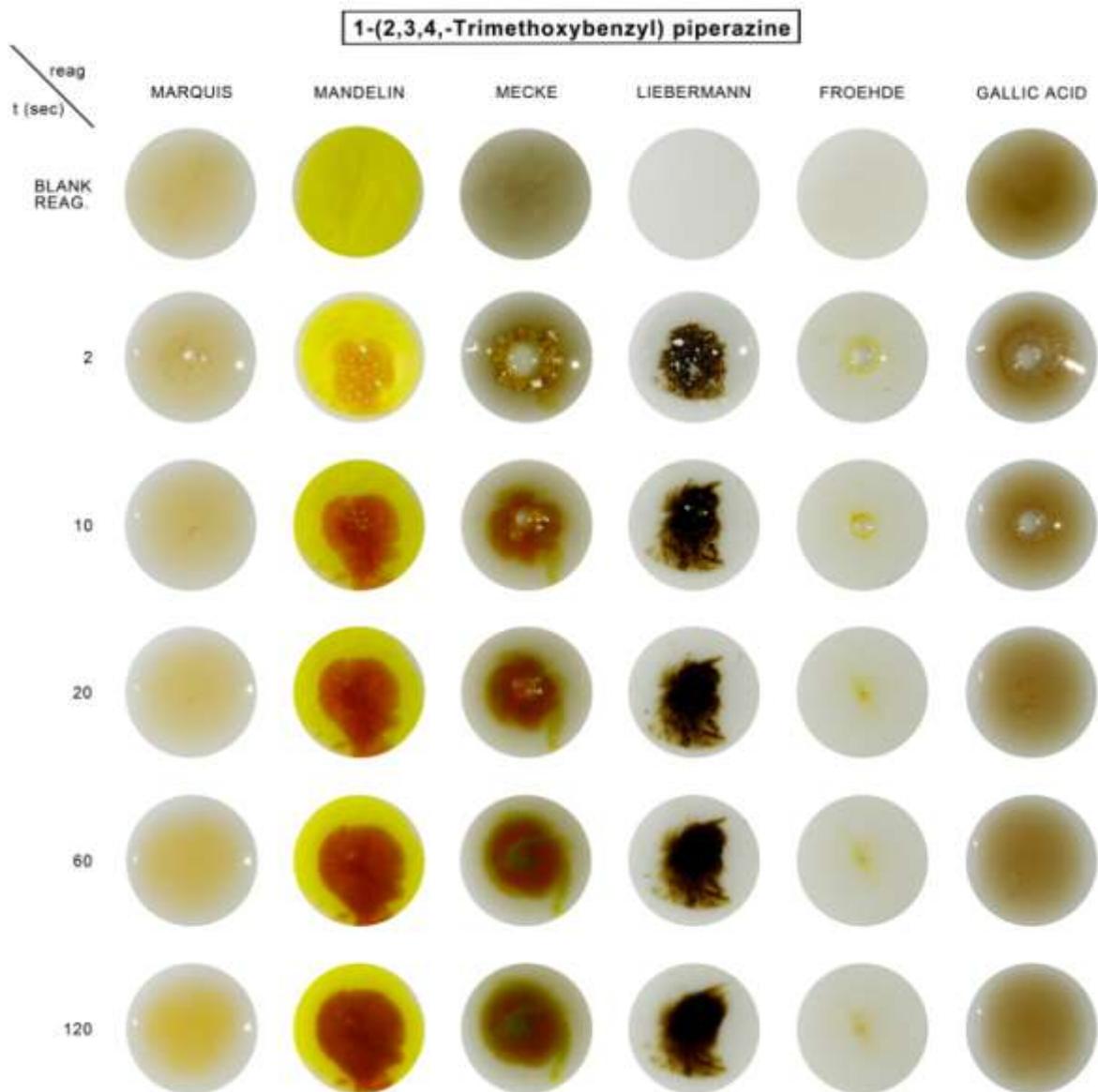
9.6. Sunifiram



9.7. Methoxypiperamide

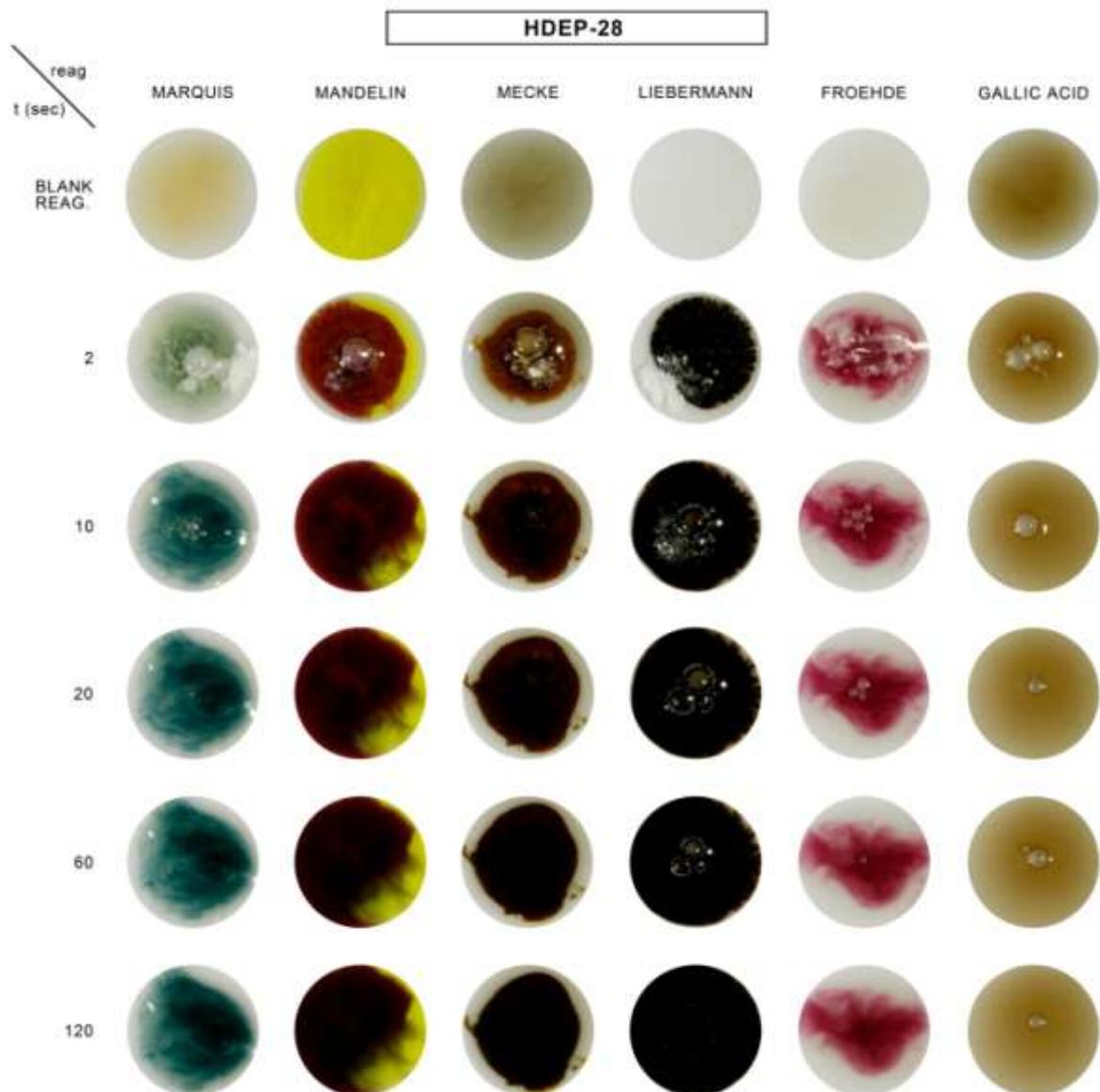


9.8. 1-(2,3,4-Trimethoxybenzyl) piperazine

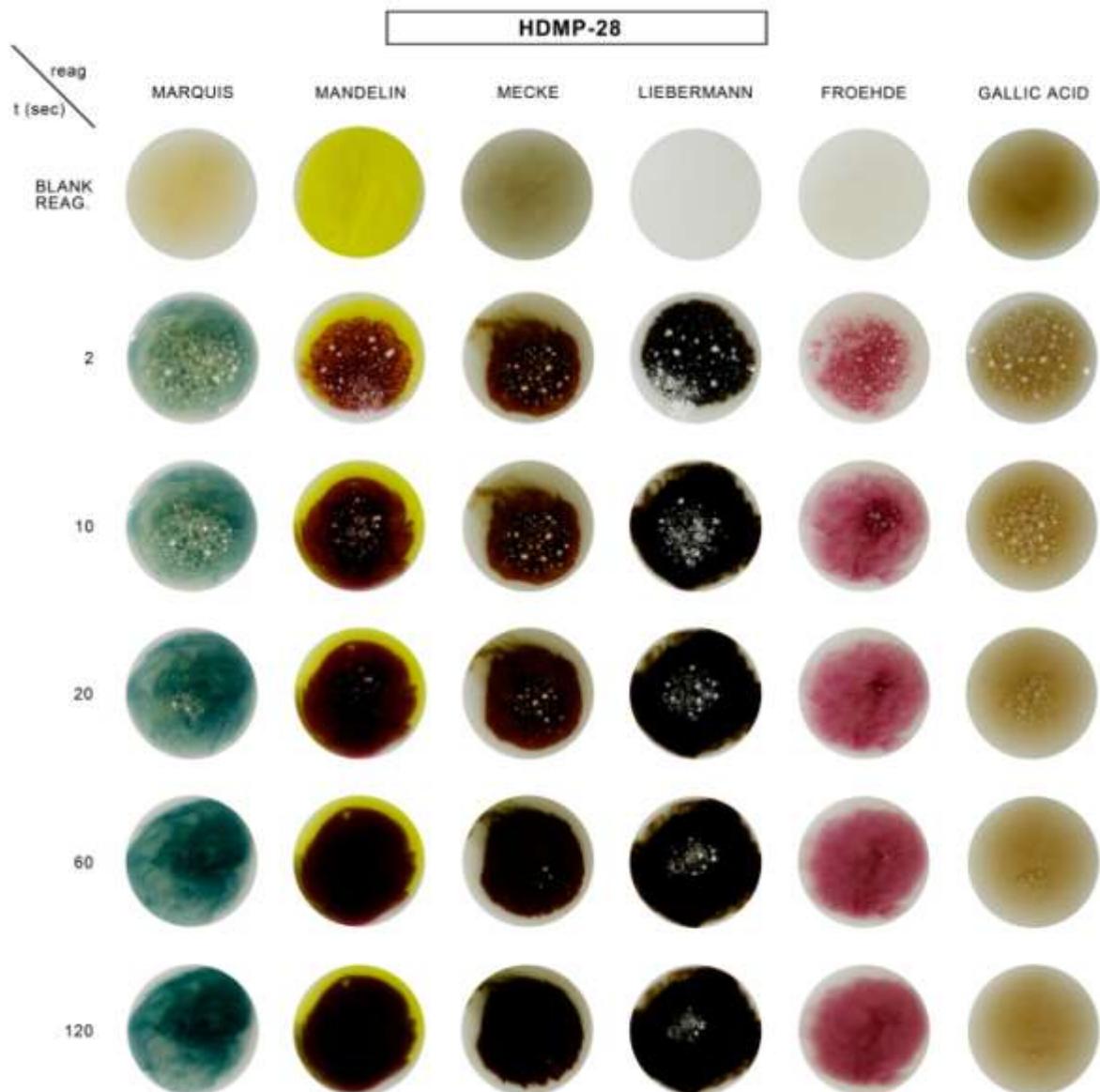


10. Piperidines & pyrrolidines

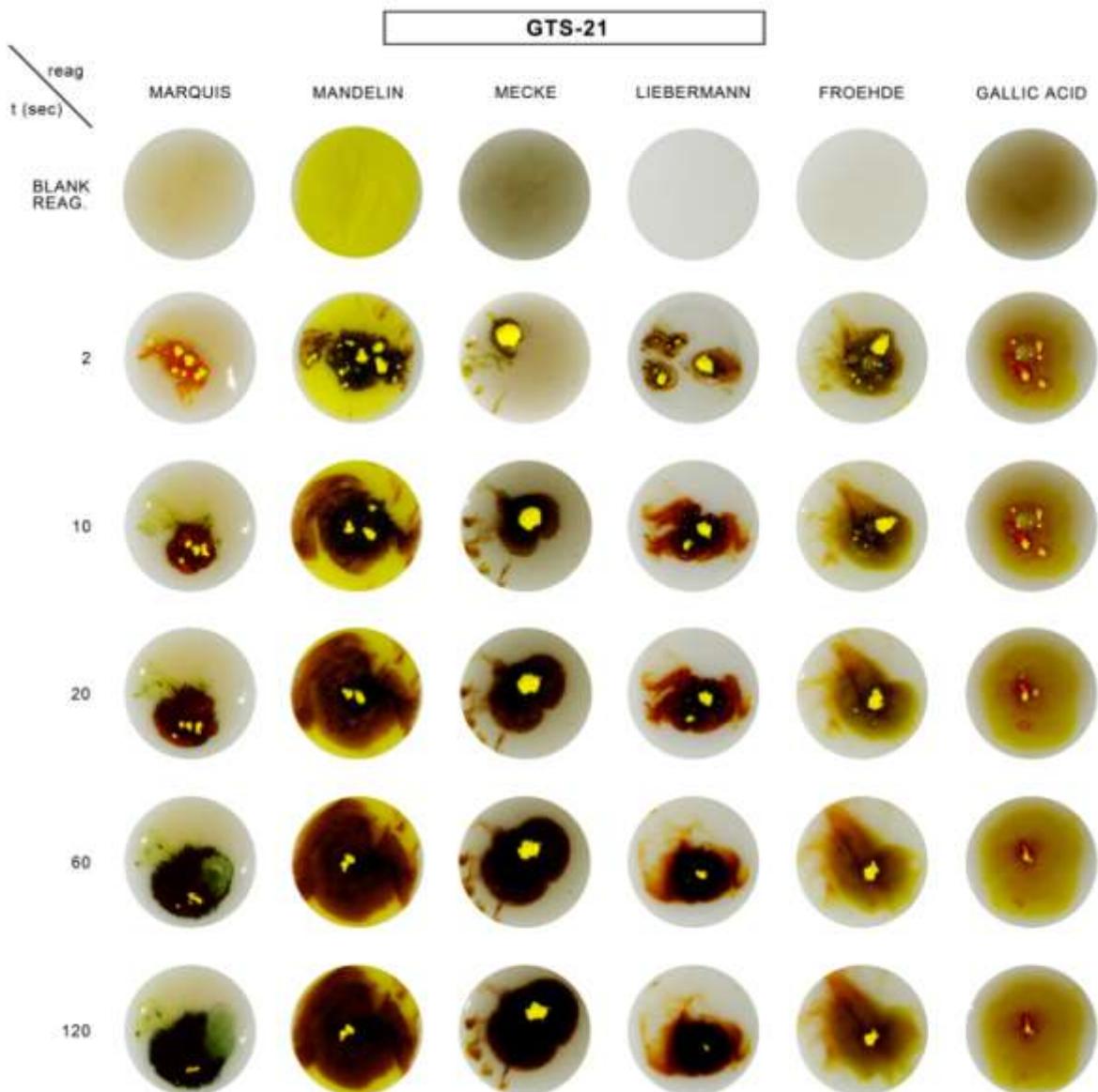
10.1. HDEP-28



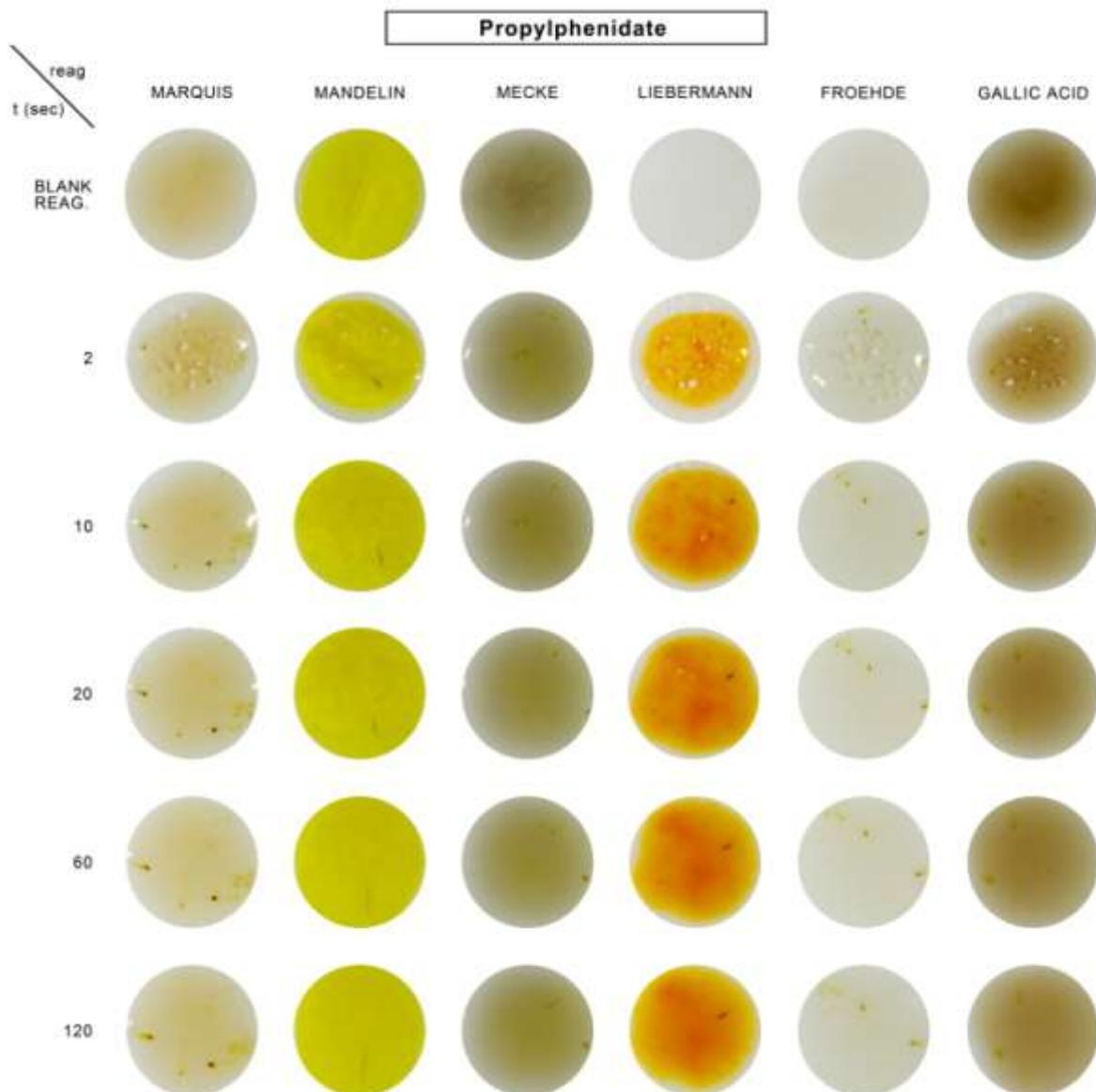
10.2. HDMP-28



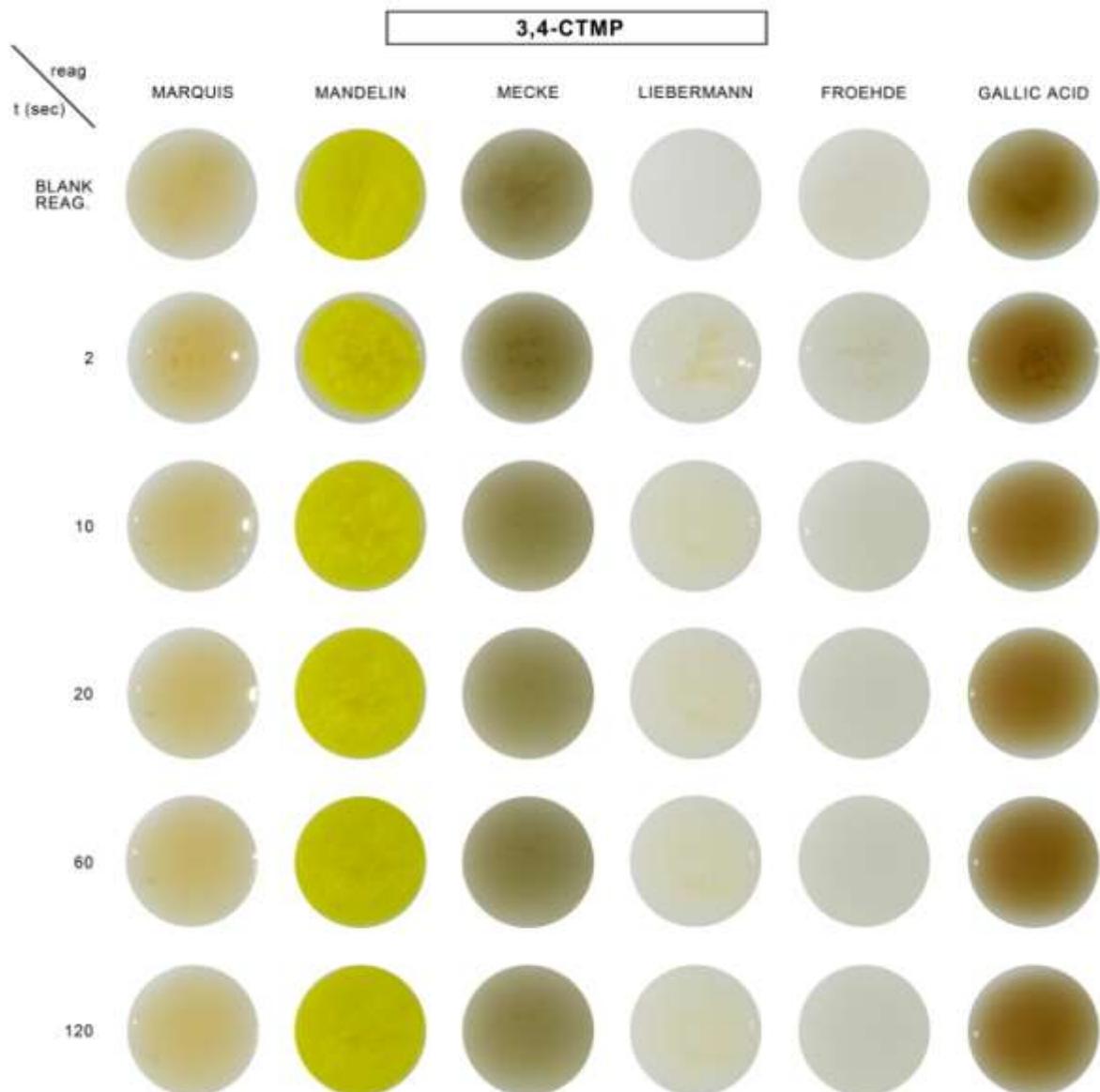
10.3. GTS-21



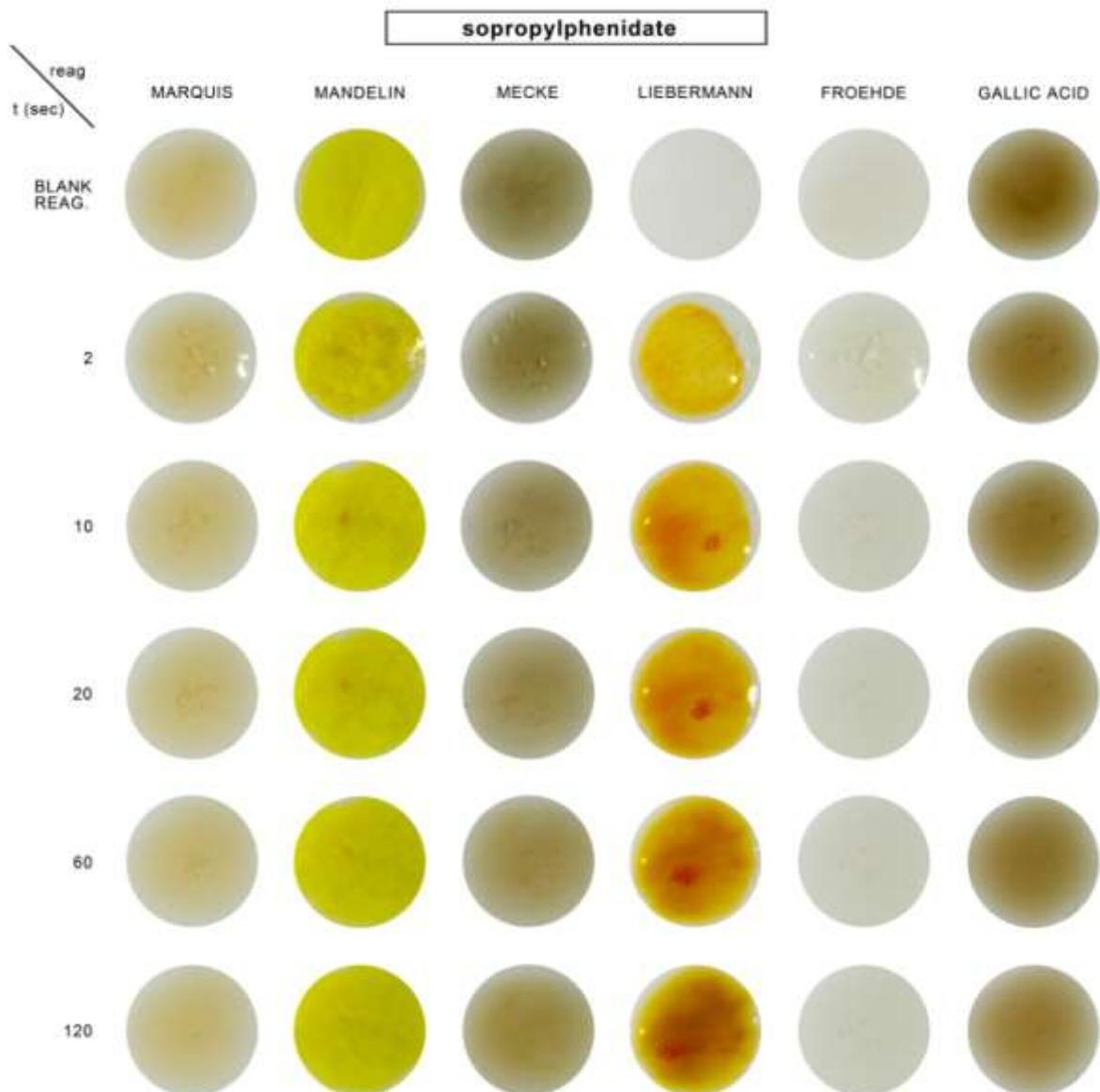
10.4. Propylphenidate



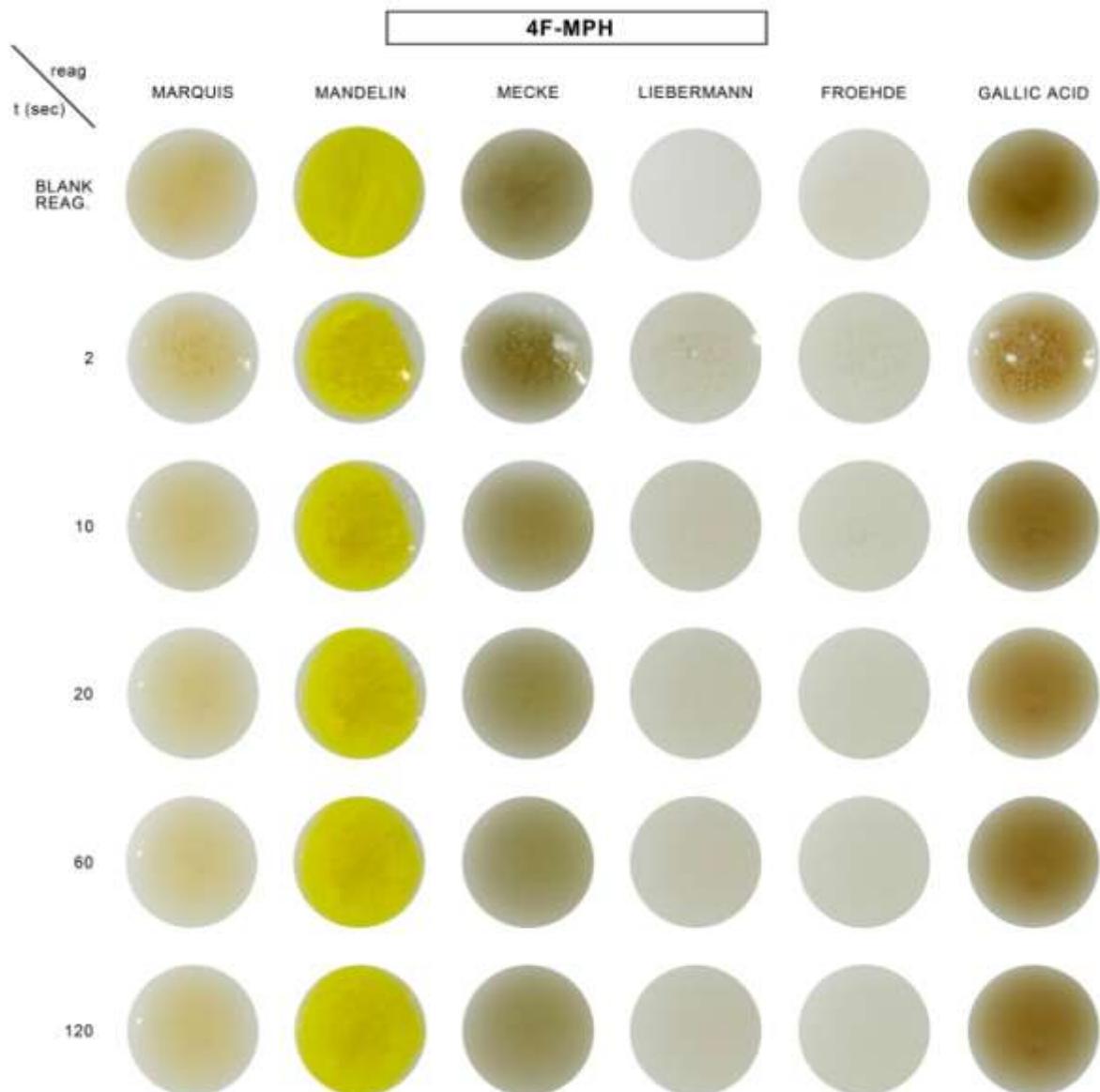
10.5. 3,4-CTMP



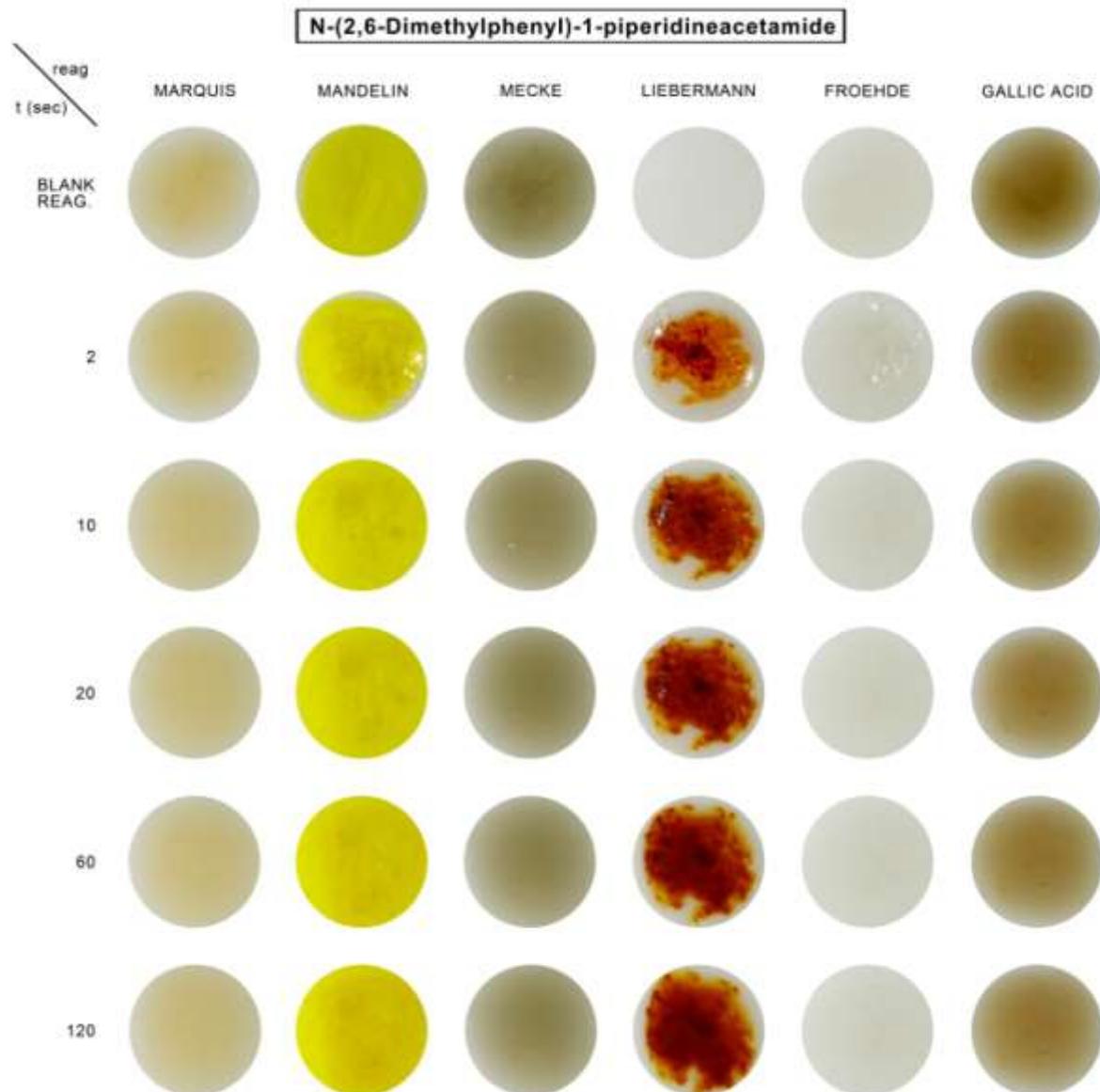
10.6. Isopropylphenidate



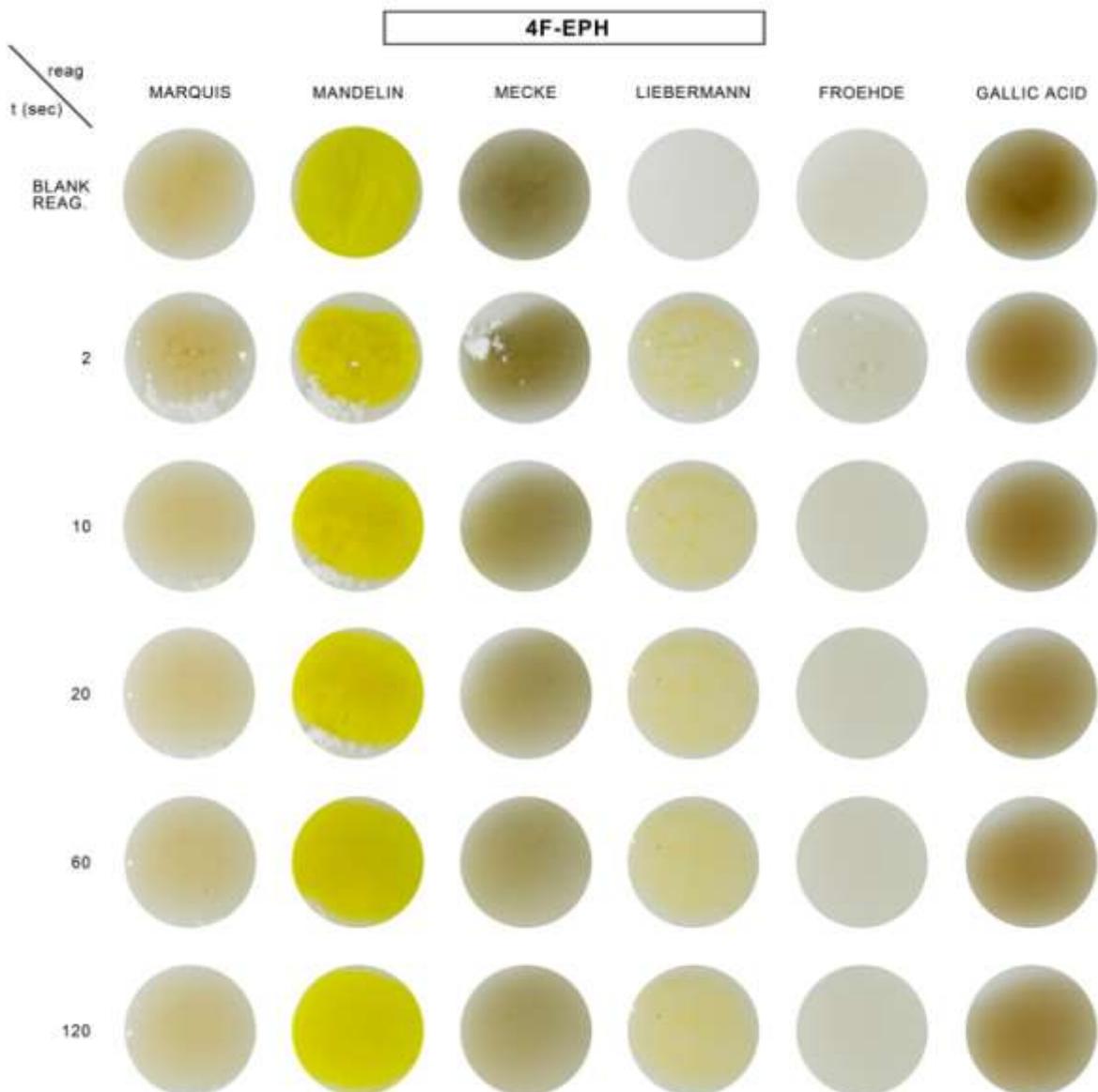
10.7. 4F-MPH



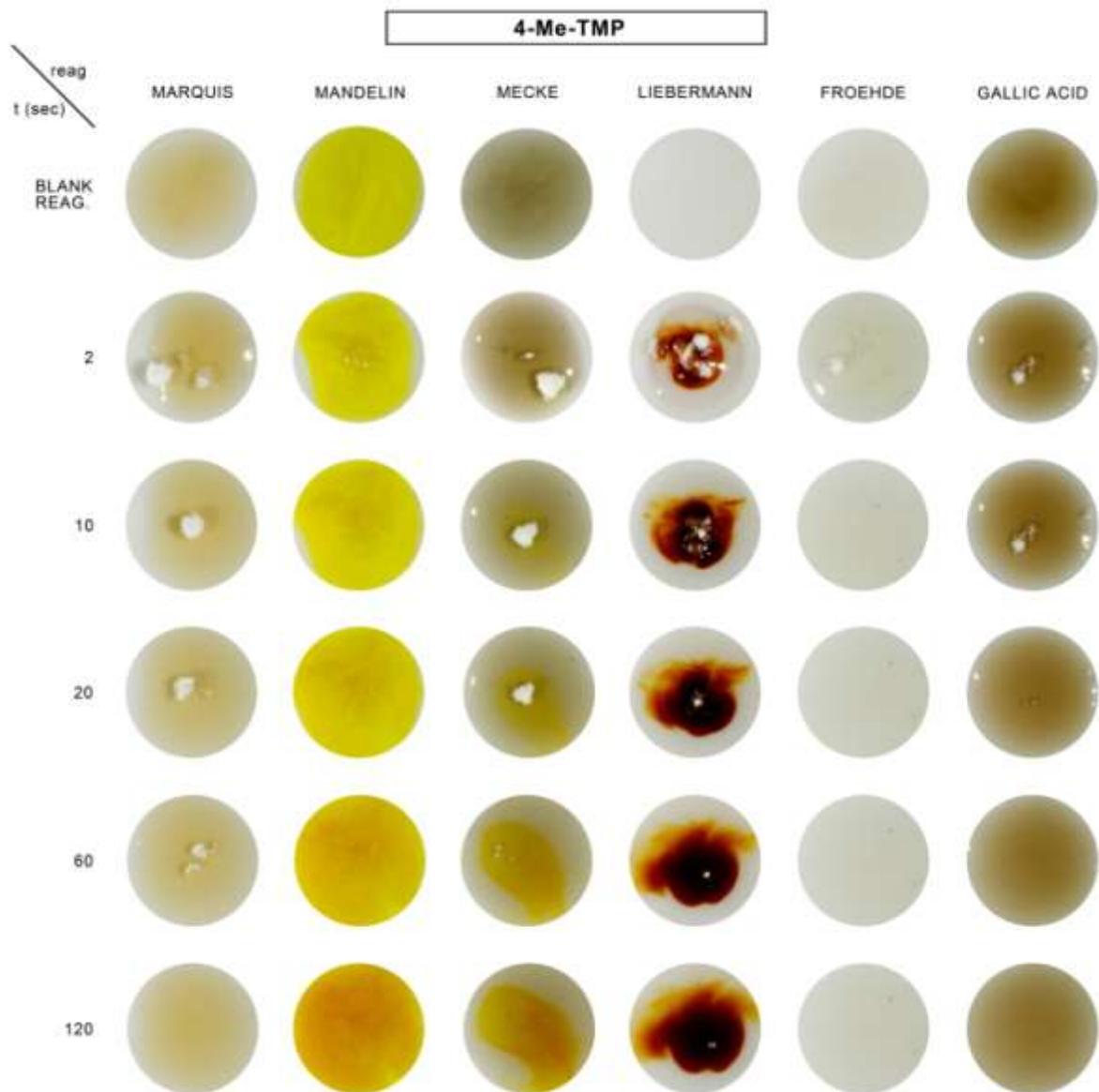
10.8. N-(2,6-Dimethylphenyl)-1-piperidineacetamide



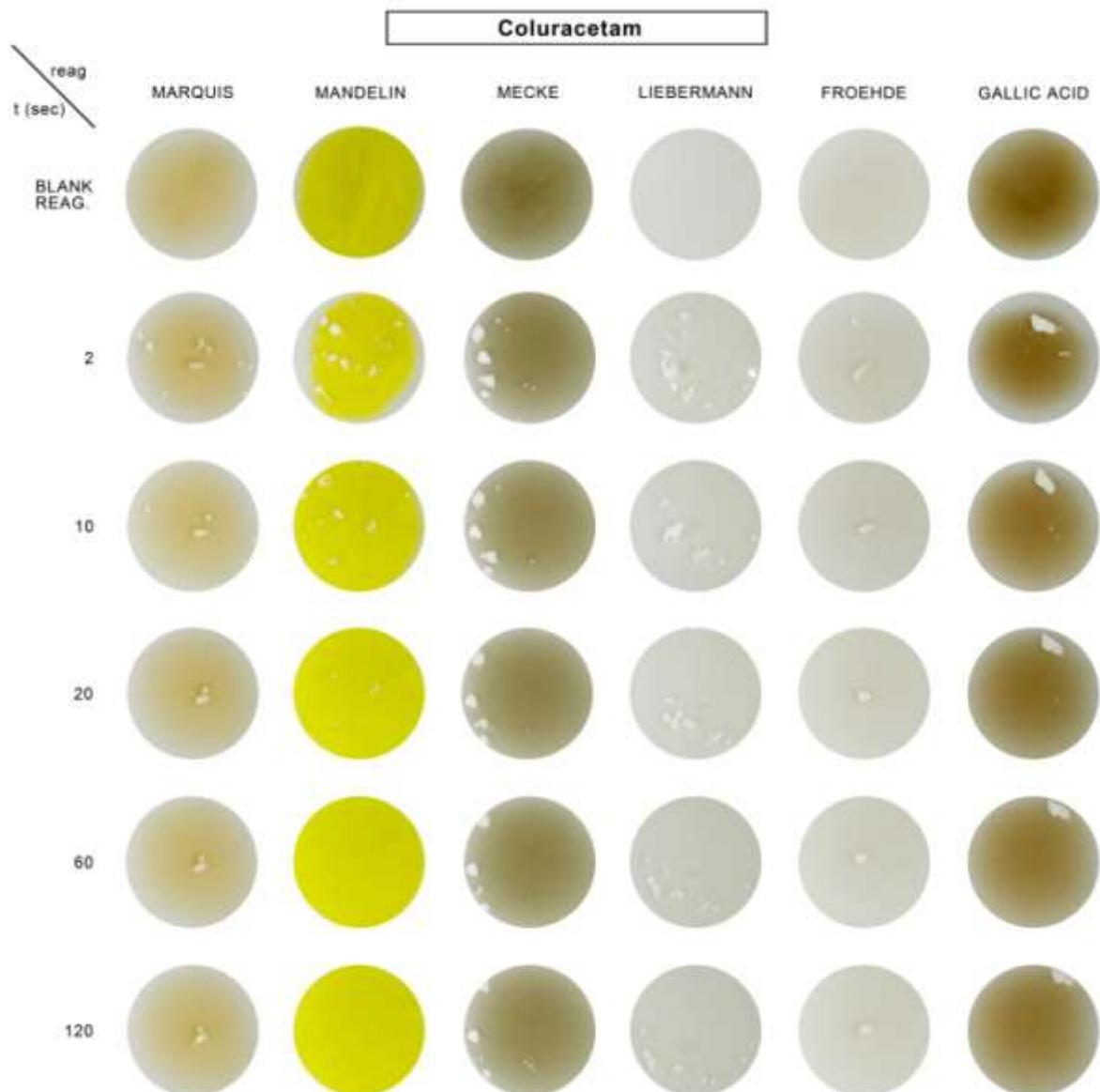
10.9. 4F-EPH



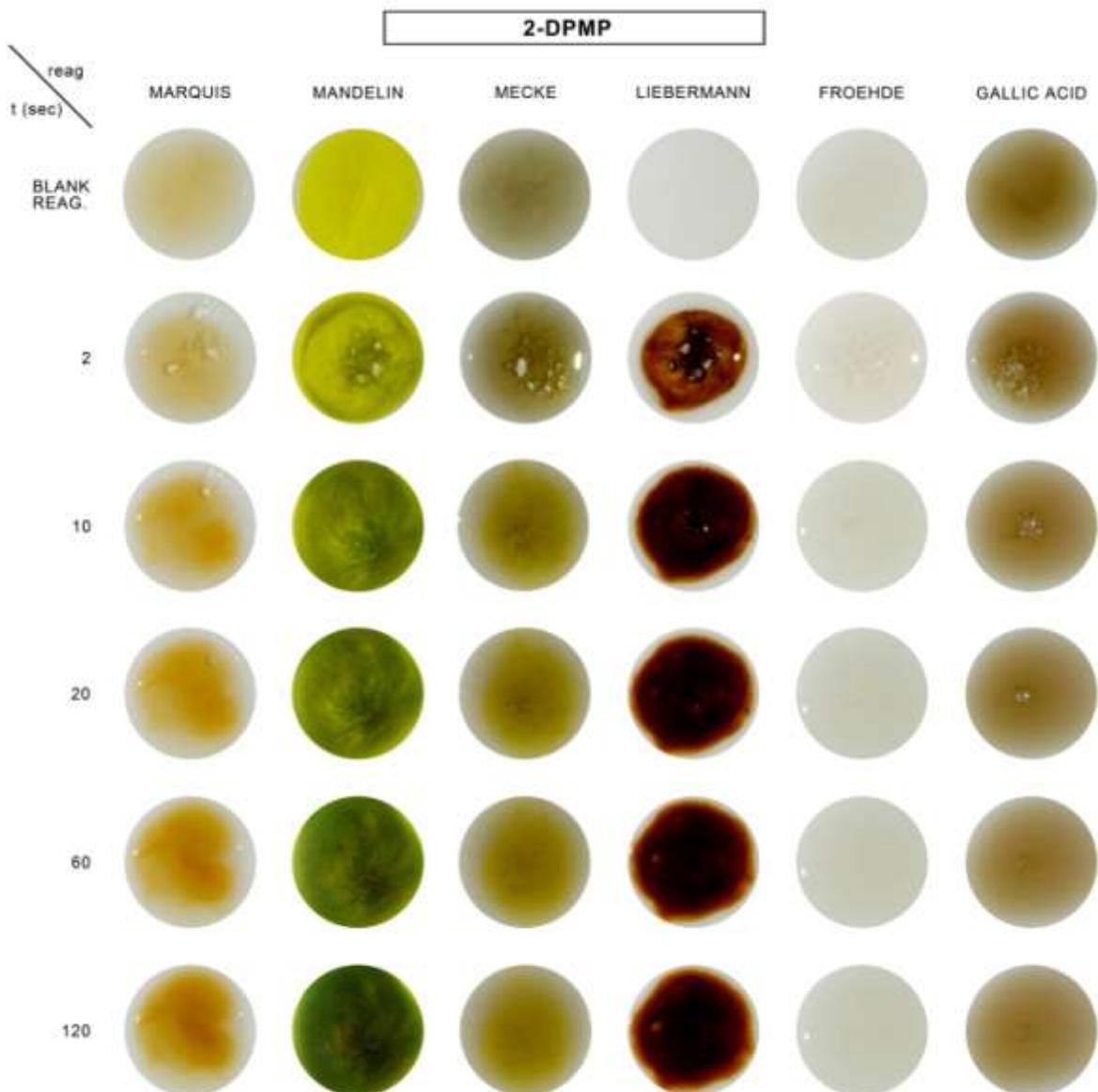
10.10. 4-Me-TMP



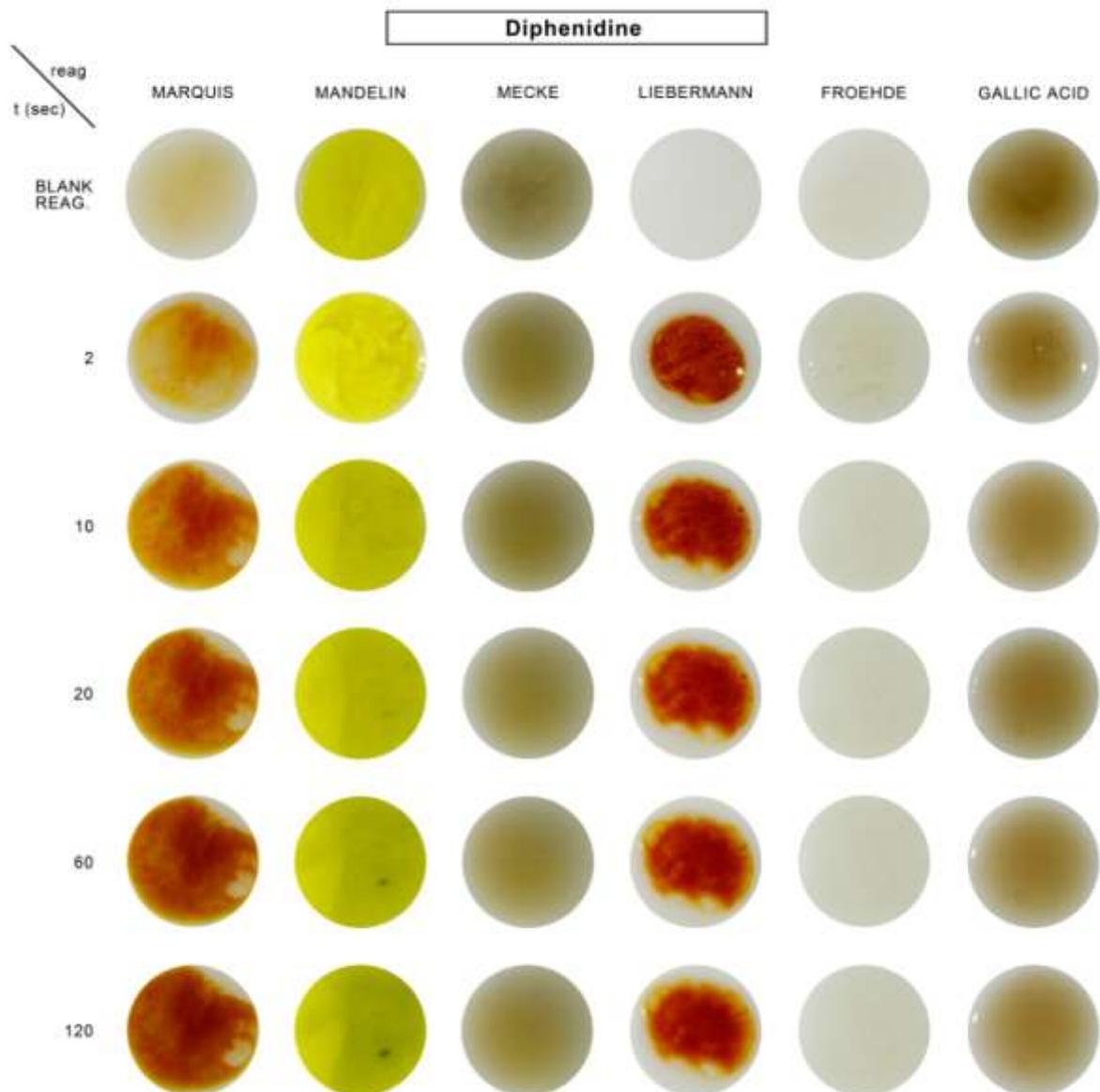
10.11. Coluracetam



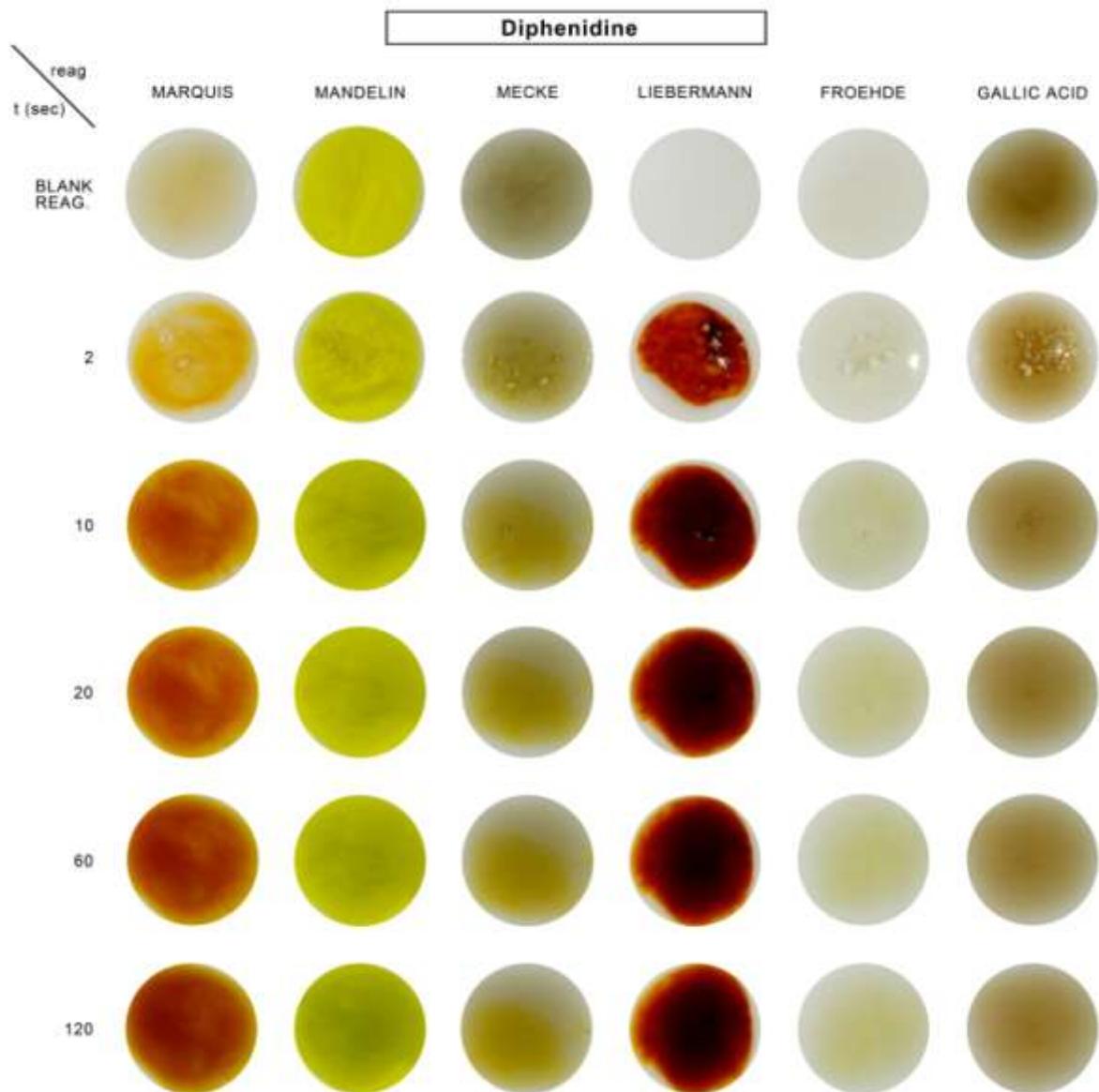
10.12. 2-DPMP



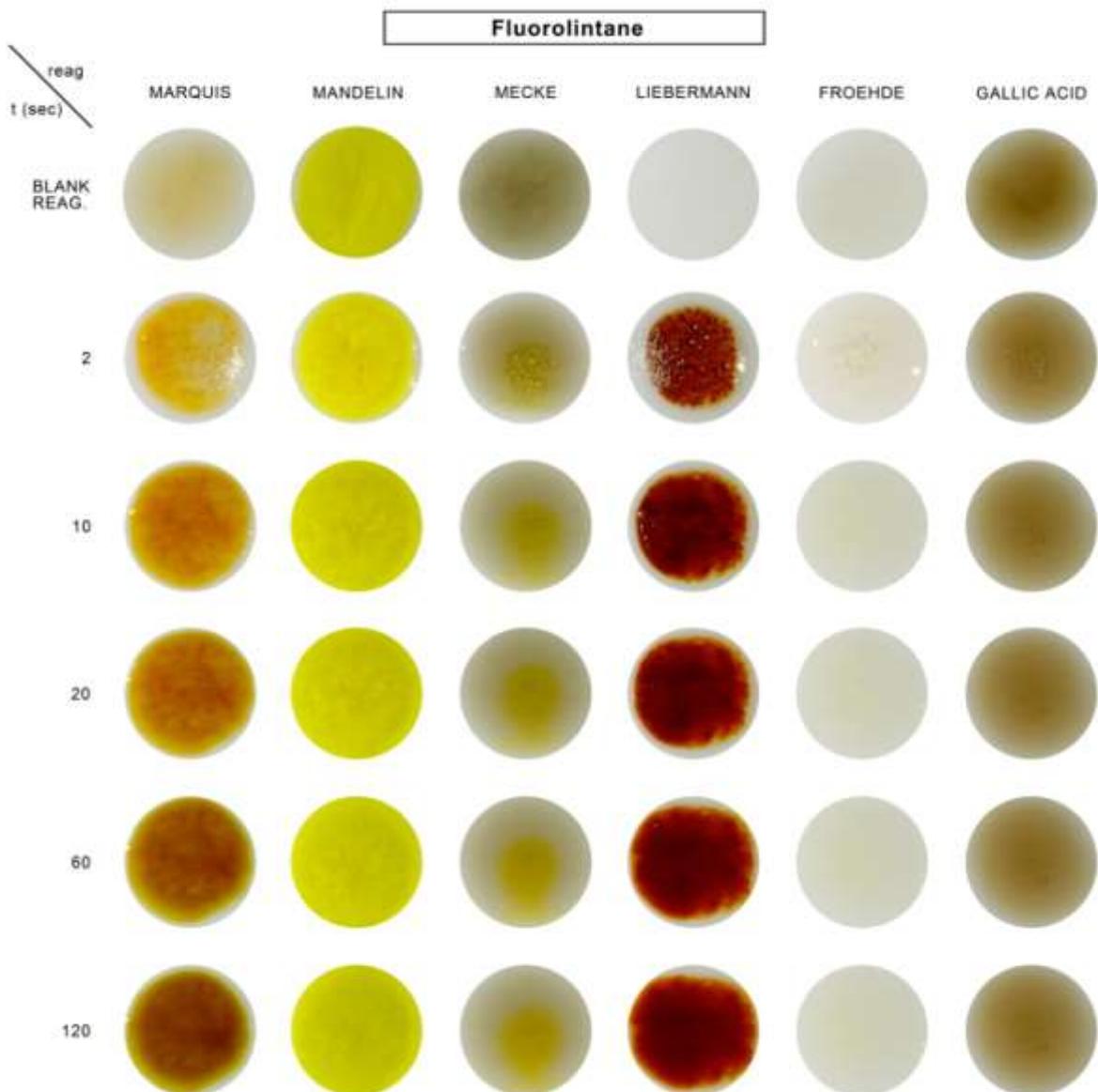
10.13. Diphenididine



10.14. Diphenidine



10.15. Fluorolintane



References

¹ Rapid Testing Methods of Drugs of Abuse. Manual for use by national law enforcement and narcotics laboratory personnel (ST/NAR/13/REV.1), United Nations, New York, 1994;
https://www.unodc.org/documents/scientific/Rapid_Testing_Methods_of_Drugs_of_Abuse_E.pdf

² Color Test Reagents/Kits for Preliminary Identification of Drugs of Abuse". Law Enforcement and Corrections Standards and Testing Program. July 2000. <https://www.ncjrs.gov/pdffiles1/nij/183258.pdf>