

Reference List of Glyphosate Studies submitted for the Renewal of Approval (AIR5) of Glyphosate in 2020 and during EU peer-review

This document provides the list of all glyphosate study reports which have been submitted to the competent authorities in 2020 to prove the safety of glyphosate and request EU authorization.

If you are interested in obtaining and reviewing any of these full study reports which are owned by members of the Glyphosate Renewal Group and which are accessible, you can easily do this via the hyperlinks provided in this reference lists.

Disclaimer: For data privacy and according to the law, all personal information and the testing facilities of vertebrate studies have been blackened in the documents. Several of the listed studies are currently on-going respectively not finalized (Aug. 2020). For these studies, hyperlinks for ordering will be added as soon as possible after they have been submitted to the authorities.



Section 1 - Physical and chemical properties



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 2.4 /01	Spectra (UV/VIS, IR, NMR, MS), molar extinction at relevant wavelengths, optical purity	2020		UV/Visible Absorption Data on Glyphosate (Glyphosate acid) and Glyphosate Isopropylamine (MON 0139) Report No.: TRR0000009 Document No.: TRR0000009 Monsanto Company GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 2.5 /01	Solubility in water	2020		Determination of the Water Solubility of Glyphosate by the Shake Flask Method Report No.: 139K-101 Document No.: EAG-2019-0020 MSL0030498 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 2.5 /04	Solubility in water	2020		Determination of the Water Solubility of Glyphosate Ammonium Salt by the Shake Flask Method Report No.: 139K-107 Document No.: EUR-2019-0471 MSL0030983 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 2.5 /08	Solubility in water	2020		Determination of Water Solubility of HMPA (hydroxymethylphosphonic acid) using the Shake Flask Method Report No.: 89593 Document No.: EAG-2019-0462 MSL0030981 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 2.7 /01	Partition coefficient n-octanol/water	2020		Determination of the n-Octanol/Water Partition Coefficient of Glyphosate Using the Shake Flask Method Report No.: 139K-102 Document No.: EAG-2019-0019 MSL0030497 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 2.7 /08	Partition coefficient n-octanol/water	2020		Determination of the n-Octanol/Water Partition Coefficient of N-Acetyl Glyphosate Using the Shake Flask Method Report No.: 139K-104 Document No.: EAG-2019-0018 MSL0030496 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 2.7 /09	Partition coefficient n-octanol/water	2020		Determination of the n-Octanol/Water Partition Coefficient of AMPA Using the Shake Flask Method Report No.: 139K-103 Document No.: EAG-2019-0017 MSL0030495 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 2.7 /10	Partition coefficient n-octanol/water	2020		Determination of the n-octanol/Water Partition Coefficient of HMPA (hydroxymethylphosphonic acid) using the Shake Flask Method Report No.: 89592 Document No.: EAG-2019-0463 MSL0030982 Eurofins EAG Agroscience, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 2.9 /01	Flammability and self-heating	2019		Glyphosate, technical substance: Flammability (Solids) Report No.: PS20190309-1 Document No.: Siemens AG, Prozess-Sicherheit GLP/GEP: Y Published: n	Glyphosate Renewal Group
KCA 2.9 /02	Flammability and self-heating	2019		Glyphosate, technical substance: Test for self-heating substances Report No.: PS20190309-2 Document No.: Siemens AG, Prozess-Sicherheit GLP/GEP: Y Published: n	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCP 2.7 /02	Storage stability and shelf-life: effects of temperature on technical characteristics of the plant protection product	2016		Accelerated Storage Stability to Support the Registration of MON 52276 as an End-Use Herbicide. Report No.: MSL0027539 Document No.: - Monsanto Company GLP/GEP: Y Published: N	Bayer
KCP 2.7 /08	Storage stability and shelf-life: effects of temperature on technical characteristics of the plant protection product	2018		Two Year Storage Stability Study to Support the Registration of MON 52276 as an End-Use Herbicide Report No.: MSL0029475 Document No.: - Monsanto Company GLP/GEP: Y Published: N	Bayer
KCP 2.7 /09	Storage stability and shelf-life: effects of temperature on technical characteristics of the plant protection product	2018		Shelf-life and stability of MON 52276 after storage for 5 years. Report No.: MSL0030308 Document No.: - Monsanto Europe N.V. GLP/GEP: N Published: N	Bayer
KCP 2.8.4 /02	Degree of dissolution and dilution stability	2016		Persistent foam and dilution stability of several glyphosate formulations. Report No.: MSL0027646 Document No.: - Monsanto Antwerp GLP/GEP: N Published: N	Bayer



Section 2 - Analytical Methods



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 4.2 /01	Methods for post- approval control and monitoring purposes	2016		Analytical method for the determination of Glyphosate and AMPA in matrices of plant origin Report No.: MSL0027298 Document No.: - Monsanto Company GLP/GEP: N Published: N	Glyphosate Task force
KCA 4.2 /04	Methods for post- approval control and monitoring purposes	2016		Analytical method for the determination of N-Acetyl glyphosate in matrices of plant origin Report No.: MSL0027300 Document No.: - Monsanto Company GLP/GEP: N Published: N	Glyphosate Task force
KCA 4.2 /06	Methods for post- approval control and monitoring purposes	2016		Analytical Method for the Determination of Glyphosate and AMPA in Matrices of Animal Origin Report No.: MSL0027299 Document No.: - Monsanto Company GLP/GEP: N Published: N	Glyphosate Task force
KCA 4.2 /07	Methods for post- approval control and monitoring purposes	2016		Analytical Method for the Determination of N-Acetyl Glyphosate in Matrices of Animal Origin Report No.: MSL0027301 Document No.: - Monsanto Company GLP/GEP: N Published: N	Glyphosate Task force



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 4.2 /15	Methods for post- approval control and monitoring purposes	2016		Analytical method for Determination of glyphosate and AMPA in Urine Report No.: MSL0028163 Document No.: - Monsanto Company GLP/GEP: N Published: N	Glyphosate Task force
KCA 4.1.2 /114; KCA 4.2 / 02	Methods for risk assessment; Methods for post-approval control and monitoring purposes	2015		Independent laboratory validation of an analytical method for determination of glyphosate and AMPA in different matrices of plant origin Report No.: S14-05172 (GAB-1434V) Document No.: - Eurofins Agroscience Services Chem GmbH GLP/GEP: Y Published: N	Glyphosate Task force
KCA 4.2 /05	Methods for post- approval control and monitoring purposes	2016		Independent Laboratory Validation of an Analytical Method for the Determination of N-Acetyl glyphosate in Matrices of Plant Origin Report No.: S15-04467 Document No.: MSL0027695 Eurofins Agroscience Services Chem GmbH GLP/GEP: Y Published: N	Bayer



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 4.2 /08	Methods for post- approval control and monitoring purposes	2016		Independent Laboratory Validation of Analytical Methods for the determination of Glyphosate and its Metabolites N-Acetyl Glyphosate and AMPA in matrices of animal origin Report No.: S15-04468 Document No.: MSL0027696 Eurofins Agroscience Services Chem GmbH GLP/GEP: Y Published: N	Bayer
KCA 4.2 /11	Methods for post- approval control and monitoring purposes	2015		Validation of an analytical method for the determination of Glyphosate and AMPA in soil using LC-MS-MS Report No.: S15-01216 Document No.: - Eurofins Agroscience Services Chem GmbH GLP/GEP: Y Published: N	Bayer
KCA 4.2 /09	Methods for post- approval control and monitoring purposes	2019		Validation of Monsanto ME-2220 analytical method for the determination of glyphosate and AMPA residues in honey Report No.: SGS-19-01-01 Document No.: MSL 0030583 SGS North America, Inc. GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 4.2 /10	Methods for post- approval control and monitoring purposes	2020		ILV of method ME-2220-01 and short term storage stability of glyphosate and its metabolite AMPA in honey Report No.: S19-04663 Document No.: M-681330-01-1 Eurofins Agroscience Services Chem GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 4.2	Methods for post- approval control and monitoring purposes	2022		ILV of Monsanto ME-2015 Analytical Method for the Determination of Glyphosate and AMPA residues in crop matrices Report No.: not yet assigned Document No.: not yet assigned Testing organisation: not yet assigned GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCP 5.1.1 /03	Analysis of the Plant Protection Product	2019		N-Nitrosoglyphosate method validation in MON 52276, MON 76610, MON 79351, MON 79545 and MON 79991 Report No.: MSL0028536 Document No.: PCH-2017-0062 Monsanto Company GLP/GEP: Y Published: N	Bayer
KCP 5.1.1 /04	Analysis of the Plant Protection Product	2020		Validation of the analytical method for the analysis of N-nitrosoglyphosate (NNG) in MON 52276 Report No.: TRR0000189 Document No.: PCH-2020-0230 Monsanto Company GLP/GEP: Y Published: N	Bayer



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCP 5.1.1 /05	Analysis of the Plant Protection Product	2020		Position Paper supporting the Approval Renewal Dossier for an Active Substance: Glyphosate & the IPA-, K-, DMA and NH4-salts of Glyphosate (hereafter Glyphosate) Report No.: n.a. Document No.: n.a. Bayer Agriculture BVBA GLP/GEP: N Published: N	Bayer
KCP 5.1.1 /06	Analysis of the Plant Protection Product	2020		Validation of the Analytical Method ME-1137 for Formaldehyde in MON 52276 Report No.: TRR0000082 Document No.: PCH-2019-0599 Monsanto Company GLP/GEP: Y Published: N	Bayer



Section 3 - Toxicological and toxicokinetic data



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.1.1 /01	Absorption, distribution, metabolism and excretion by oral route	2020		A GLP 14-Day Oral (Dietary) Toxicokinetic Study of Glyphosate in Sprague Dawley Rats Report No.: 00050502 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.1.2 /01	Absorption, distribution, metabolism and excretion by other routes	2020		Metabolic stability and profiling of [14C]-Glyphosate in hepatocytes from human, rat, mouse, dog and rabbit for inter-species comparison Report No.: S19-04081 Document No.: M-682096-01-1 GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.2.7 /01	Phototoxicity	2022		Phototoxicity – Expert Statement based on UV/VIS absorption spectra KCA 2.4 regulatory study Report No.: - Document No.: - GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.4.1 /40	Genotoxicity testing	2021		Glyphosate: V79 HPRT Gene Mutation Assay Report No.: 8441968 Document No.: - Covance Laboratories Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.4.1 /41	Genotoxicity testing	2021		Glyphosate: Micronucleus Test in Human Lymphocytes in vitro Report No.: 8441969 Document No.: - Covance Laboratories Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.7.1 /02	Neurotoxicity studies in rodents	2006		Ninety Day Repeated Dose Oral (Dietary) Neurotoxicity Study in the Rat Report No.: 2060-0010 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /32	Toxicity studies of metabolites	2007		IN-EYE252: Acute Oral Toxicity Study in Rats - Up-and-Down Procedure Report No.: DuPont-22229 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.8.1 /33	Toxicity studies of metabolites	2008		IN-EY252: Subchronic Toxicity 90-Day Feeding Study in Rats Report No.: DuPont-23316 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /34	Toxicity studies of metabolites	2007		IN-EY252: Bacterial Reverse Mutation Assay Report No.: AB47BT.503.BTL Document No.: DuPont-22227 BioReliance GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /35	Toxicity studies of metabolites	2007		IN-EY252: In Vitro Mammalian Chromosome Aberration Test in Human Peripheral Blood ymphocytes Report No.: AB47BT.341.BTL Document No.: DuPont-22225 BioReliance GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /36	Toxicity studies of metabolites	2007		IN-EY252: In Vitro Mammalian Cell Gene Mutation Test (CHO/HGPRT) Report No.: DuPont-22224 Document No.: - E.I. du Pont de Nemours and Company; Critical Path Services, LLC GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.8.1 /37	Toxicity studies of metabolites	2007		IN-EY252: Mouse Bone Marrow Micronucleus Test Report No.: DuPont-22226 Document No.: DuPont-22226 GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /38	Toxicity studies of metabolites	2004		Mass Balance, Metabolism, and Pharmacokinetics of [14C]N- acetylglyphosate Following Administration of a Single Oral Dose to Rats Report No.: Covance 7535-100 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /39	Toxicity studies of metabolites	2004		Acute Oral Toxicity Study in Rats with N-Acetyl-Glyphosate, Sodium Salt (Acute Toxic Class Method) Report No.: 7535-103 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.8.1 /40	Toxicity studies of metabolites	2007		IN-MCX20: Subchronic Toxicity 90-Day Feeding Study in Rats Report No.: DuPont-19008 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /41	Toxicity studies of metabolites	2004		Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay with a confirmatory Assay with N-Acetyl-Glyphosate Report No.: 7535-101 Document No.: VER04-COV-03 Covance Laboratories Inc. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /42	Toxicity studies of metabolites	2004		Chromosomal Aberrations in Chinese Hamster Ovary (CHO) Cells Report No.: 7535-102 Document No.: VER04-COV-02 Covance Laboratories Inc. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /43	Toxicity studies of metabolites	2006		IN-MCX20: In Vitro Mammalian Cell Gene Mutation Test (CHO/HGPRT) Report No.: DuPont-20155 Document No.: - E.I. du Pont de Nemours and Company GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.8.1 /44	Toxicity studies of metabolites	2006		IN-MCX20: Mouse Bone Marrow Micronucleus Test Report No.: DuPont-20154 Document No.: - GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /45	Toxicity studies of metabolites	2021		Aminomethylphosphonic acid: Reverse Mutation Assay 'Ames Test' using Salmonella typhimurium and Escherichia coli Report No.: 8442150 Document No.: - Covance Laboratories Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /46	Toxicity studies of metabolites	2021		Aminomethylphosphonic acid: V79 HPRT Gene Mutation Assay Report No.: 8441963 Document No.: - Covance Laboratories Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 5.8.1 /47	Toxicity studies of metabolites	2021		Aminomethylphosphonic acid: Micronucleus Test in Human Lymphocytes in vitro Report No.: 8442149 Document No.: - Covance Laboratories Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 5.8.3; KCA 8.1.5; KCA 8.2.3	Endocrine disrupting properties	2020		Assessment on the endocrine disrupting properties of the active substance glyphosate in accordance with Commission Regulation (EU) 2018/605 Report No.: 110517-2 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCP 7.1.3 /01	Inhalation toxicity	2015		MON 52276: Acute Inhalation Toxicity in Rats Report No.: 40830 Document No.: MSL0026415 GLP/GEP: Y Published: N	Bayer
KCP 7.1.7 /01	Supplementary studies on the plant protection product	2016		MON 52276: Bacterial Reverse Mutation Assay Report No.: AE60YE-503-BTL Document No.: MSL0027853 BioReliance GLP/GEP: Y Published: N	Bayer
KCP 7.1.7 /02	Supplementary studies on the plant protection product	2016		In Vitro Mammalian Cell Micronucleus Assay in Human Peripheral Blood Lymphocytes (HPBL) Report No.: AE60YE-348-BTL Document No.: MSL0027858 BioReliance GLP/GEP: Y Published: N	Bayer



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCP 7.1.7 /03	Supplementary studies on the plant protection product	2020		MON 52276: Micronucleus Test in Human Lymphocytes in vitro Report No.: WC22PQ Document No.: TRR0000171 Covance Laboratories Limited GLP/GEP: Y Published: N	Bayer



Section 4 - Metabolism and residue data



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.1	Storage stability of the residues	2022		Storage stability for the metabolite AMPA in protein rich matrices (study ongoing) Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 6.2.1 /19	Plants	2000		Metabolism of Glyphosate in Roundup Ready Wheat Report No.: 811W Document No.: MSL-16028 PTRL West, Inc. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /01	Orchard use	2014		Glyphosate-Residue Study on Mandarin Oranges in Spain in 2013 Report No.: S13-02531 Document No.: A12798QA_10348 Eurofins Agroscience Services Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /02	Orchard use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in tree nuts (outdoor) at 2 sites in Southern Europe 2015 Report No.: S15-00018 Document No.: A12798QA_10340 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.1 /03	Orchard use	2014		Glyphosate -Residue Study on Apple in the United Kingdom and Germany in 2013 Report No.: S13-03425 Document No.: A12798QA_10343 Eurofins Agroscience Services Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /04	Crop 1 - to be replaced by crop name - Add further data points as required for further crops	2014		Glyphosate - Residue Study on Apple in Spain and Italy in 2013 Report No.: S13-03426 Document No.: - Eurofins Agroscience Services Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /06	Orchard use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in apricots (outdoor) at 4 sites in Southern Europe 2015 Report No.: S15-00019 Document No.: MSL0027488 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /07	Orchard use	2014		Glyphosate - Residue Study on Cherry in Spain and Italy in 2013 Report No.: S13-03427 Document No.: A12798QA_10349 Eurofins Agroscience Services Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.1 /08	Orchard use	2014		Glyphosate - Residue study on plum in Italy in 2013 Report No.: S13-03233 Document No.: A12798QA_10347 Eurofins Agroscience Services Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /09	Orchard use	2013		Determination of Residue of Glyphosate in Stone Fruits Following One Application of Glyphosate SL 360g/L (CA2705) in Northern and Southern France, in 2012 Report No.: S12-03071 Document No.: NUA-1201 Eurofins Agroscience Services Chem GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /10	Orchard use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in vine grapes (outdoor) at 2 sites in Germany 2015 Report No.: S15-00491 Document No.: MSL0027503 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.1 /11	Orchard use	2015		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in vine grapes (outdoor) at 4 sites in Northern France Report No.: S14-04157 Document No.: MSL0027071 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /12	Orchard use	2015		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in vine grapes (outdoor) at 3 sites in Germany and 2 sites in Spain 2014 Report No.: S14-04158 Document No.: MSL0027070 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /13	Orchard use	2015		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in vine grapes (outdoor) at 4 sites in Southern Europe 2014 Report No.: S14-04226 Document No.: MSL0027069 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.1 /19	Orchard use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in kiwi fruit (outdoor) at 2 sites in Southern Europe 2015 Report No.: S15-00469 Document No.: MSL0027501 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.1 /20	Orchard use	2015		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in bananas (outdoor) at 4 sites in Spain (Canary Islands) 2014 Report No.: S14-04159 Document No.: MSL0027222 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.3 /01	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in carrots (outdoor) at 4 sites in Southern Europe 2015 Report No.: S15-00482 Document No.: MSL0027502 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.3 /02	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in radish (outdoor) at 2 sites in Southern Europe 2015 Report No.: S15-00467 Document No.: MSL0027500 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.3 /03	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in bulb onions (outdoor) at 4 sites in Southern and 2 sites in Northern Europe 2015 Report No.: S15-00466 Document No.: MSL0027499 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.3 /04	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in tomato (outdoor) at 4 sites in Southern Europe 2015 Report No.: S15-00465 Document No.: MSL0027498 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.3 /05	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in cucumber (outdoor) at 2 sites in Southern and 2 sites in Northern Europe 2015 Report No.: S15-00464 Document No.: MSL0027497 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.3 /06	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in courgette (outdoor) at 2 sites in Southern and 2 sites in Northern Europe 2015 Report No.: S15-00463 Document No.: MSL0027496 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.3 /07	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in head lettuce (outdoor) at 4 sites in Southern and 2 sites in Northern Europe 2015 Report No.: S15-00460 Document No.: MSL0027493 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



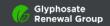
Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.3.3 /08	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after one application of MON 79351 in parsley (outdoor) at 2 sites in Southern and 2 sites in Northern Europe 2015 Report No.: S15-00459 Document No.: MSL0027492 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.3.3 /09	Inter-row use	2016		Determination of residues of glyphosate and its metabolite AMPA after oneapplication of MON 79351 in green beans (outdoor) at 4 sites in Southern and 4 sites in Northern Europe 2015 Report No.: S15-00461 Document No.: MSL0027494 Eurofins Agroscience Services GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 6.5.1 /01	Nature of the residue	2020		AMPA and N-Acetyl AMPA Hydrolysis under typical conditions (pH, temperature and time) of processing Report No.: S19-22457 Document No.: M-680101-01-1 Eurofins Agroscience Services EcoChem GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.6.2	Magnitude of residues in rotational crops	2022		Determination of glyphosate and AMPA in field rotational crops Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 6.6.2	Magnitude of residues in rotational crops	2022		Determination of glyphosate and AMPA after pre-emergence application in cereals, oilseed rape and pulses Report No.: - Document No.:	Glyphosate Renewal Group
KCA 6.7.1 /01	Proposed residue definitions	2020		(Q)SAR and read-across genotoxicity evaluation of Glyphosate and seven metabolites, using VEGA v1.1.5b22, DEREK Nexus v6.0.1, Toxtree v3.1.0 and OECD QSAR Toolbox v4.4 Report No.: 110054/QSAR/1 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 6.7.1 /02	Proposed residue definitions	2020		Supplementary information for (Q)SAR and read-across genotoxicity evaluation of Glyphosate and seven metabolites, using VEGA v1.1.5b22, DEREK Nexus v6.0.1, Toxtree v3.1.0 and OECD QSAR Toolbox v4.4 Report No.: 110054/QSAR/1 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 6.10.1 /01	Effect on the residue level in pollen and bee products	2020		Determination of Residues of Glyphosate in Honey after one Application in Phacelia tanacetifolia at 4 Sites in Germany 2019 Report No.: S19-04329 Document No.: - Eurofins Agroscience Services Ecotox GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Section 5 - Fate and Behaviour in the Environment



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.1.1.3 /01	Soil photolysis	2020		Estimation of kinetic endpoints for glyphosate and its metabolite AMPA from a soil photolysis study Report No.: 112148-007 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.1.2.1.1 /01; KCA 7.1.2.1.2 /01	Aerobic degradation of the active substance; Aerobic degradation of metabolites, breakdown and reaction products	2020		Estimation of kinetic endpoints for glyphosate and its metabolite AMPA from aerobic laboratory soil degradation studies Report No.: 112148-001 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.1.2.1.2 /02	Aerobic degradation of metabolites, breakdown and reaction products	2020		AMPA – Rate of Degradation of Aminomethylphosphonic Acid (AMPA) in Aerobic Soil Report No.: 3202599 Document No.: - Smithers ERS Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.1.2.1.2 /03	Aerobic degradation of metabolites, breakdown and reaction products	2017		Aminomethylphosphonic Acid (AMPA): Rate of Degradation of AMPA in one Acidic Soil Incubated under Aerobic Conditions Report No.: S16-04460 Document No.: EPS-2016-0309 Eurofins Agroscience Services EcoChem GmbH / Eurofins Agroscience Services Ecotox GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 7.1.2.1.2 /04	Aerobic degradation of metabolites, breakdown and reaction products	2020		AMPA – Rate of Degradation of Aminomethylphosphonic Acid (AMPA) in Aerobic Soil - Report Addendum Report No.: 3202599 Document No.: - Smithers ERS Limited GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 7.1.2.1.3 /01	Anaerobic degradation of the active substance	2020		Estimation of kinetic endpoints for glyphosate and its metabolite AMPA from an anaerobic laboratory soil degradation study Report No.: 112148-004 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.1.2.2.1 /01	Soil dissipation studies	2020		Estimation of kinetic endpoints for glyphosate and its metabolite AMPA from terrestrial field dissipation studies in Europe Report No.: 112148-003 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.1.2.2.1 /02	Soil dissipation studies	2020		Glyphosate: Ecoregion Crosswalk for Nineteen Terrestrial Field Dissipation Study Locations in North America Report No.: 112148-005 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.1.2.2.1 /03	Soil dissipation studies	2020		Estimation of kinetic endpoints for glyphosate and its metabolite AMPA from terrestrial field dissipation studies in the USA and Canada Report No.: 112148-006 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.1.3.1.1 /01	Adsorption and desorption of the active substance	2020		Glyphosate – Adsorption/Desorption of [14C]Glyphosate in Ten Soils, Experiments Supporting IES Study20190441 - Final Report Report No.: 20190441 Document No.: - Innovative Environmental Services (IES) Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 7.1.3.1.1 /02	Adsorption and desorption of the active substance	2020		Glyphosate – Adsorption/Desorption of [14C]Glyphosate in Ten Soils - First Amendment to Final Report - Report No.: 20190441 Document No.: - Innovative Environmental Services (IES) Ltd. GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.1.3.1.2	Adsorption and desportion of metabolites, breakdown and reaction products	2022		Adsorption/Desorption of 14C-AMPA in Six Soils Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.2.2.2 /01	Aerobic mineralisation in surface water	2020		Glyphosate – Aerobic Mineralisation of [14C]Glyphosate in Surface Water Report No.: 815731 Document No.: TR0000198 Charles River Laboratories Edinburgh Ltd. GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.2.2.2 /01	Aerobic mineralisation in surface water	2022		Characterization of the material in unidentified peak from study CRO-2019-0268, Glyphosate - Aerobic Mineralisation of [14C]Glyphosate in Surface Water Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.2.2.3 /01	Water/sediment study	2020		Estimation of kinetic endpoints for glyphosate and its metabolites AMPA and HMPA from laboratory water-sediment studies Report No.: 112148-002 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.3.1 /01	Route and rate of degradation in air	2020		Glyphosate: Calculation of the Chemical Half-Life in the Troposphere Report No.: 110054-016 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.5 /01	Monitoring data	2020		Collection of public monitoring data for European countries for the compartments soil, water, sediment and air for Glyphosate, AMPA and HMPA Report No.: 110057-1 Document No.: EnSa-20-0244 knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.5 /02	Monitoring data	2020		Glyphosate (GLY) and the primary metabolites Aminomethyl Phosphonic Acid (AMPA) and Hydroxymethyl Phosphonic Acid (HMPA): Public monitoring data assessment and interpretation Report No.: EnSa-20-0322 Document No.: CEA.2162 Bayer Agriculture BV GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 7.5 /08	Monitoring data	2019		PHASE 1: TRAITEMENTS ET ANALYSES STATISTIQUES SUR LES DONNÉES SOES UIPP 2008-2014 - Analyse des données de suivi de glyphosate et de l'AMPA dans les eaux de France Période 2008 -2014 Report No.: REA-DOC-026 Document No.: - envilys GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.5 /09	Monitoring data	2016		Analyse des données de suivi du glyphosate et de l'AMPA dans les eaux de France Période 1997-2013 Report No.: - Document No.: Rapport_AMPA_Glyphosate_1997-2013(V 3) Monsanto France GLP/GEP: N Published: N	Bayer
KCA 7.5 /10	Monitoring data	2016		Survey of glyphosate and AMPA in ground waters and surface waters in Europe - 2015/16 update review – final report Report No.: MSL0027535 Document No.: - Helene Horth, Adviser, Water Quality and European Policy & Legislation GLP/GEP: N Published: N	Glyphosate Task force
KCA 7.5 /31	Monitoring data	2019		Mitigating glyphosate levels in surface waters: Pilot catchment details and monitoring results Report No.: - Document No.: - Vito NV GLP/GEP: N Published: N	Bayer



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.5 /32	Monitoring data	2019		PHASE 3 ET 4:TRAITEMENTS ET ANALYSES STATISTIQUES SUR LES DONNÉES SOES UIPP 2008–2014 ANALYSES DES DONNÉES DE SURVEILLANCES SUR 6 TERRITOIRES TÉMOINS SYNTHÈSE DES DONNÉES SUR L'ENSEMBLE DES TERRITOIRES VITICOLES - Analyse des données de suivi de glyphosate et de l'AMPA dans les eaux de France Période 2008 -2014 Report No.: - Document No.: REA-DOC-026 envilys GLP/GEP: N Published: N	Bayer
KCA 7.5 /33	Monitoring data	2018		Etude environnementale du Glyphosate et de l'AMPA à l'échelle des 10 points de surveillance les plus préoccupants pour le Glyphosate et pour l'AMPA Analyse des suivis du Glyphosate et de l'AMPA en lien avec les bassins versants drainés par les stations de mesures et l'occupation des sols - Etudes des stations sur l'AMPA Report No.: Envilys Report Version 1 (2018) Document No.: REA-DOC-026 envilys GLP/GEP: N Published: N	Bayer



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 7.5 /34	Monitoring data	2018		Etude environnementale du Glyphosate et de l'AMPA à l'échelle des 10 points de surveillance les plus préoccupants pour le Glyphosate et pour l'AMPA Analyse des suivis du Glyphosate et de l'AMPA en lien avec les bassins versants drainés par les stations de mesures et l'occupation des sols - Etudes des stations sur l'AMPA Report No.: Envilys Report Version 1 (2018) Document No.: REA-DOC-026 envilys GLP/GEP: N Published: N	Bayer
KCA 7.5 /74	Monitoring data	2015		Survey of glyphosate and AMPA in drinking water supplies in Europe - 2015 update report Report No.: - Document No.: - Helene Horth, Adviser, Water Quality and European Policy & Legislation GLP/GEP: N Published: N	Glyphosate Task force
KCP 9.1.3 /01	Estimation of concentrations in soil	2020		Predicted environmental concentrations of glyphosate and its metabolite AMPA in soil following application to various crops – a modelling assessment for Europe using ESCAPE Report No.: 110054-012 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCP 9.2.4.1 /01	Calculation of concentrations in groundwater	2020		Predicted environmental concentrations of glyphosate and its metabolite AMPA in groundwater following application to various crops – a modelling assessment for Europe using FOCUS PEARL, FOCUS PELMO and FOCUS MACRO Report No.: 110054-013 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Bayer
KCP 9.2.4.1 /02; KCP 9.2.5 /02	Calculation of concentrations in groundwater; Estimation of concentrations in surface water and sediment	2020		Predicted environmental concentrations of glyphosate and its metabolites AMPA and HMPA in groundwater and surface water following application to railways – a modelling assessment using HardSPEC Report No.: 110054-015 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Bayer
KCP 9.2.5 /01	Estimation of concentrations in surface water and sediment	2020		Predicted environmental concentrations of glyphosate and its metabolites AMPA and HMPA in surface water and sediment following application to various crops – a modelling assessment for Europe using the FOCUS surface water scenarios at Steps 1 - 3 Report No.: 110054-014 Document No.: - knoell Germany GmbH GLP/GEP: N Published: N	Bayer





Section 6 – Ecotoxicology



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 8.1.1; KCA 8.1.2	Effects on birds; Effects on terrestrial vertebrates other than birds	2022		Broad-leaf residue decline Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 8.2.5.3 /01	Development and emergence in Chironomus species	2020		MON 77973: A Study on the Toxicity to the Sediment Dweller Chironomus riparius Using Spiked Water Report No.: 20FV2ME Document No.: ECT-2019-0362 ECT Oekotoxikologie GmbH and CIP – Chemisches Institut Pforzheim GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 8.2.5.4	Sediment dwelling organisms	2022		MON 77973: A study on the toxicity to the sediment dweller Chironomus riparius using spiked sediment (Range finding test) Report No.: - Document No.: - GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 8.2.5.4	Sediment dwelling organisms	2022		MON 77973: A study on the toxicity to the sediment dweller Chironomus riparius using spiked sediment Report No.: - Document No.:	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 8.2.6	Effects on algal growth	2022		Algae study (freshwater green) with the metabolite AMPA Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 8.2.6	Effects on algal growth	2022		Algae study (marine species) with the metabolite AMPA Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCA 8.3.1.1.1 /07; KCA 8.3.1.1.2 /08	Acute oral toxicity; Acute contact toxicity	2017		MON 0139: Acute Oral and Contact Toxicity to the Bumble Bee, Bombus terrestris L. under Laboratory Conditions Report No.: S16-06634 Document No.: EPS-2016-0622 (MSL-0028880) Eurofins Agroscience Services EcoChem GmbH / Eurofins Agroscience Services Ecotox GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



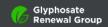
Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 8.3.1.1.2 /09	Acute contact toxicity	2017		MON 0139: Acute Contact Toxicity to the Solitary Bee, Osmia bicornis under Laboratory Conditions Report No.: S17-00083 Document No.: EPS-2016-0623 (MSL-0028894) Eurofins Agroscience Services EcoChem GmbH / Eurofins Agroscience Services Ecotox GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 8.3.1.2 /01	Chronic toxicity to bees	2017		MON 0139: Chronic Oral Toxicity Test on the Honey Bee (Apis mellifera L.) in the Laboratory Report No.: 118401136 Document No.: IO-2016-0508 (MSL0029007) ibacon GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group
KCA 8.3.1.3 /01	Effects on honeybee development and other honeybee life stages	2020		MON 0139 - Repeated exposure of honey bee larvae (Apis mellifera L.) under laboratory conditions Report No.: 19 48 BLC 0068 Document No.: BI-2018-0721 TRR0000053 BioChem agrar Labor für biologische und chemische Analytik GmbH GLP/GEP: Y Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 8.7 /01	Effects on other terrestrial organisms (flora and fauna)	2020		Glyphosate: Indirect effects via trophic interaction - A Practical Approach to Biodiversity Assessment Report No.: TRR0000305 Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCP 10.4.1.1 /01	Earthworms – sub- lethal effects	2020		MON 52276: Effects on survival, growth and reproduction of the earthworm Eisenia andrei tested in artificial soil Report No.: 20 48 TEC 0028 Document No.: BI-2019-0632 BioChem agrar Labor für biologische und chemische Analytik GmbH GLP/GEP: Y Published: N	Bayer
KCP 10.4.2.1	Species level testing	2022		Folsomia candida reproduction Test in soil (OECD 232) with the representative formulation MON52276 Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group



Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCP 10.4.2.1	Species level testing	2022		Hypoaspis aculeifer reproduction Test in soil (OECD 226) with the representative formulation MON52276 Report No.: - Document No.: GLP/GEP: N Published: N	Glyphosate Renewal Group
KCP 10.6.2 /01	Testing on non- target plants	2019		MON52276: Effects on the Seedling Emergence and Growth of Ten Non-Target Terrestrial Plant Species under Greenhouse Conditions Report No.: S19-03634 Document No.: EUR-2019-0233 Trialcamp S.L.U. GLP/GEP: Y Published: N	Bayer
KCP 10.6.2	Testing on non- target plants	2022		Vegetative vigour study with MON 52276 Report No.: - Document No.: - - GLP/GEP: Y Published: N	Glyphosate Renewal Group



Section 7 – Literature data

Annex point	Details to Annex point	Year	Author(s)	Title Report No. Source GLP status published or not	Owner
KCA 9 /01	Literature data	2020		Literature Review Report Scientific peer- reviewed open literature for the approval of pesticide active substances glyphosate as under Article 8(5) of Regulation (EC) No 1107/2009 Report No.: 108689-CA9-1 Document No.: - GLP/GEP: N Published: N	Glyphosate Renewal Group