

Allergens

It has been estimated that 10% of the U.S. population is affected by allergens. Cosmetic allergens can be found in everything from shampoos to skin creams. The average person is now exposed to significantly higher levels of these chemicals than people were exposed to only a generation ago. The resulting synergistic effect, coupled with environmental exposure to chemicals, is the focus of an ever-increasing number of studies.

Some of these chemicals cause, or are suspected of causing, allergic reactions. Some chemicals are toxic. Phthalates are a cosmetic issue as well as a Food Safety concern as an Indirect Food Additive. They tend to migrate from plastic containers and wrappings into food. Finally, pesticides are a cosmetic ingredient issue since they can be present with other ingredients such as lanolin.

AccuStandard now offers AllergenCheck™ Standards to meet analytical requirements of the cosmetic, pharmaceutical and food industries. These new products coupled with the widest selection of Certified Reference Standards for pesticide and pesticide metabolite analysis offers one-stop shopping for the analysis of allergens.

Many Standards are synthesized by AccuStandard and are not available elsewhere. If you do not see the chemicals or their metabolites that you need, let us know and we may be able to synthesize them. Additionally, if a certain custom mixture of allergens would make your analysis easier, we can provide you with a custom formulation that will save you time.

Allergen Standards are listed as follows

- Neats and Single Solutions listed alphabetically by compound
- Allergens regulated by the EU
- Allergen standards listed by type



Individual Allergens

Allergens (in 1 mL of solvent, unless otherwise noted) *100 mL

ALLERGENS	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
2-Acetylpyridine	1122-62-9	100 mg 100 µg/mL	Neat MeOH	ALR-066N ALR-066S
Alanroot (Inula helenium)	97676-35-2	1000 µg/mL	EtOH	ALR-027S-ET-10X
Alkylphenol ethoxylates:				
Nonylphenol-ethylene oxide condensate (Nonoxynol-9)	26027-38-3	100 mg 100 µg/mL	Neat MeOH	ALR-079N ALR-079S
Polyethylene glycol nonaphenyl ether (Triton N-101)	123359-41-1	100 mg 100 µg/mL	Neat MeOH	ALR-078N ALR-078S
Allylisothiocyanate	57-06-7	100 mg 1000 µg/mL	Neat EtOH	ALR-028N ALR-028S-ET-10X
Amyl cinnamal	122-40-7	100 mg 1000 µg/mL	Neat AcCN	ALR-001N ALR-001S-CN-10X
Amylcinnamyl alcohol	101-85-9	1000 µg/mL	EtOH	ALR-008S-ET-10X
Anisyl alcohol	105-13-5	100 mg 1000 µg/mL	Neat EtOH	ALR-014N ALR-014S-ET-10X
Arsenic	7440-38-2	1000 µg/mL	2-5% HNO ₃	ALR-MET-01S *
Balsam of Peru	8007-00-9	100 mg 100 µg/mL	Neat MeOH	ALR-080N ALR-080S
Benzophenone-3 (Bp-3)	131-57-7	100 mg 100 µg/mL	Neat AcCN	ALR-081N ALR-081S-CN
Benzyl alcohol	100-51-6	100 mg 1000 µg/mL	Neat EtOH	ALR-002N ALR-002S-ET-10X
Benzyl benzoate	120-51-4	100 mg 1000 µg/mL	Neat EtOH	ALR-019N ALR-019S-ET-10X
Benzyl butyl phthalate	85-68-7	100 mg 100 µg/mL	Neat MeOH	ALR-082N ALR-082S
Benzyl cinnamate	103-41-3	100 mg 1000 µg/mL	Neat EtOH	ALR-015N ALR-015S-ET-10X
Benzyl cyanide	140-29-4	100 mg 1000 µg/mL	Neat EtOH	ALR-029N ALR-029S-ET-10X
Benzyl paraben	94-18-8	100 mg 100 µg/mL	Neat MeOH	ALR-083N ALR-083S
Benzyl salicylate	118-58-1	100 mg 1000 µg/mL	Neat EtOH	ALR-009N ALR-009S-ET-10X
Bithionol	97-18-7	100 mg 100 µg/mL	Neat MeOH	ALR-084N ALR-084S
5-Bromo-5-nitro-1,3-dioxane (Bronidox L) (BND)	30007-47-7	100 mg 100 µg/mL	Neat MeOH	ALR-074N ALR-074S
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	100 mg 100 µg/mL	Neat MeOH	ALR-067N ALR-067S
2-(4-tert-Butylbenzyl)propionaldehyde (technical grade)	80-54-6	1000 µg/mL	AcCN	ALR-017S-CN-10X
Butylated hydroxyanisole (BHA)	25013-16-5	100 mg 100 µg/mL	Neat MeOH	ALR-087N ALR-087S
Butylated hydroxytoluene (BHT&2,6-DBPC)	128-37-0	100 mg 100 µg/mL	Neat MeOH	ALR-088N ALR-088S
Butylene glycol	107-88-0	100 mg 100 µg/mL	Neat MeOH	ALR-089N ALR-089S
Butyl-methoxydibenzoylmethane (B-MDM) Sunblock, Parsol1789	70356-09-1	100 mg 100 µg/mL	Neat MeOH	ALR-086N ALR-086S
Butyl paraben	94-26-8	100 mg 100 µg/mL	Neat MeOH	ALR-085N ALR-085S
p-tert-Butylphenol	98-54-4	100 mg 1000 µg/mL	Neat EtOH	ALR-030N ALR-030S-ET-10X
Cetone Alpha (technical grade)	127-51-5	1000 µg/mL	AcCN	ALR-024S-CN-10X

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ALLERGENS	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
Chloroacetamide	79-07-2	100 mg	Neat	ALR-090N
		100 µg/mL	MeOH	ALR-090S
Chloroform	67-66-3	100 mg	Neat	ALR-091N
		100 µg/mL	MeOH	ALR-091S
2-Chloropyridine	109-09-1	100 mg	Neat	ALR-068N
		100 µg/mL	MeOH	ALR-068S
Chromium	7440-47-3	1000 µg/mL	2-5% HNO ₃	ALR-MET-02S *
Cinnamal	104-55-2	100 mg	Neat	ALR-010N
		1000 µg/mL	AcCN	ALR-010S-CN-10X
Cinnamyl alcohol	104-54-1	100 mg	Neat	ALR-003N
		1000 µg/mL	EtOH	ALR-003S-ET-10X
Citral	5392-40-5	100 mg	Neat	ALR-004N
		1000 µg/mL	AcCN	ALR-004S-CN-10X
b-Citronellol	106-22-9	100 mg	Neat	ALR-020N
		1000 µg/mL	EtOH	ALR-020S-ET-10X
Coal Tar (black)	8007-45-2	100 mg	Neat	ALR-094N
		100 µg/mL	Toluene	ALR-094S-T
Cobalt	7440-48-4	1000 µg/mL	2-5% HNO ₃	ALR-MET-03S *
Coumarin	91-64-5	100 mg	Neat	ALR-011N
		1000 µg/mL	AcCN	ALR-011S-CN-10X
2,4-Diaminophenol	137-09-7	100 mg	Neat	ALR-063N
		100 µg/mL	MeOH	ALR-063S
Diethyl phthalate	131-18-0	100 mg	Neat	ALR-098N
		100 µg/mL	MeOH	ALR-098S
Diazolidinyl urea	78491-02-8	100 mg	Neat	ALR-106N
		100 µg/mL	MeOH	ALR-106S
Dibromsalon (Halogenated salicylanilides)	87-12-7	100 mg	Neat	ALR-107N
		100 µg/mL	MeOH	ALR-107S
Dicyclohexyl phthalate	84-61-7	100 mg	Neat	ALR-099N
		100 µg/mL	MeOH	ALR-099S
Diethanolamine (DEA)	111-42-2	100 mg	Neat	ALR-109N
		100 µg/mL	MeOH	ALR-109S
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	100 mg	Neat	ALR-097N
		100 µg/mL	MeOH	ALR-097S
Diethyl maleate	141-05-9	100 mg	Neat	ALR-033N
		1000 µg/mL	EtOH	ALR-033S-ET-10X
Diethyl phthalate	84-66-2	100 mg	Neat	ALR-110N
		100 µg/mL	MeOH	ALR-110S
Di-hexyl phthalate	84-75-3	100 mg	Neat	ALR-100N
		100 µg/mL	MeOH	ALR-100S
Dihydrocoumarin	119-84-6	100 mg	Neat	ALR-034N
		1000 µg/mL	Acetone	ALR-034S-A-10X
Di-iso-decyl phthalate	26761-40-0	100 mg	Neat	ALR-101N
		100 µg/mL	MeOH	ALR-101S
Di-iso-nonyl phthalate	68515-48-0	100 mg	Neat	ALR-102N
		100 µg/mL	MeOH	ALR-102S
Di-iso-octyl phthalate	27554-26-3	100 mg	Neat	ALR-103N
		100 µg/mL	MeOH	ALR-103S
Dimethyl citraconate	617-54-9	100 mg	Neat	ALR-038N
		1000 µg/mL	EtOH	ALR-038S-ET-10X
Dimethyl phthalate (DMP)	131-11-3	100 mg	Neat	ALR-111N
		100 µg/mL	MeOH	ALR-111S
6,10-Dimethyl-3,5,9-undecatrien-2-one (Pseudoionone)	141-10-6	100 mg	Neat	ALR-040N
		1000 µg/mL	Acetone	ALR-040S-A-10X
Di-n-butyl phthalate (DBP)	84-74-2	100 mg	Neat	ALR-104N
		100 µg/mL	MeOH	ALR-104S
Di-n-octyl phthalate	117-84-0	100 mg	Neat	ALR-105N
		100 µg/mL	MeOH	ALR-105S
1,4-Dioxane	123-91-1	100 mg	Neat	ALR-062N
		100 µg/mL	MeOH	ALR-062S
Diphenylamine	122-39-4	100 mg	Neat	ALR-041N
		1000 µg/mL	EtOH	ALR-041S-ET-10X
2-Ethoxyethanol	110-80-5	100 mg	Neat	ALR-064N
		100 µg/mL	MeOH	ALR-064S
2-Ethoxyethanol acetate	111-15-9	100 mg	Neat	ALR-065N
		100 µg/mL	MeOH	ALR-065S
Ethyl acrylate	140-88-5	100 mg	Neat	ALR-042N
		1000 µg/mL	EtOH	ALR-042S-ET-10X
Ethyl paraben	120-47-8	100 mg	Neat	ALR-113N
		100 µg/mL	MeOH	ALR-113S
Ethylene diamine dihydrochloride	333-18-6	100 mg	Neat	ALR-114N
		100 µg/mL	MeOH	ALR-114S
Eugenol	97-53-0	100 mg	Neat	ALR-005N
		1000 µg/mL	EtOH	ALR-005S-ET-10X
Farnesol	4602-84-0	100 mg	Neat	ALR-016N
		1000 µg/mL	EtOH	ALR-016S-ET-10X
Formaldehyde	50-00-0	100 µg/mL	Water	ALR-115S-W
Freon #11 Trichlorofluoromethane	75-69-4	200 µg/mL	MeOH	ALR-CFC-013S-2X
Freon #12 Dichlorodifluoromethane	75-71-8	200 µg/mL	MeOH	ALR-CFC-008S-2X
Freon #13 Chlorotrifluoromethane	75-72-9	200 µg/mL	MeOH	ALR-CFC-007S-2X
Freon #13b1 Bromotrifluoromethane	75-63-8	200 µg/mL	MeOH	ALR-CFC-001S-2X
Freon #21 Dichlorodifluoromethane	75-43-4	200 µg/mL	MeOH	ALR-CFC-009S-2X
Freon #22 Chlorodifluoromethane	75-45-6	200 µg/mL	MeOH	ALR-CFC-003S-2X
Freon #23 Trifluoromethane	75-46-7	200 µg/mL	MeOH	ALR-CFC-015S-2X
Freon #40 Chloromethane	74-87-3	200 µg/mL	MeOH	ALR-CFC-005S-2X

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ALLERGENS	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.	UNIT	PRICE
Freon #113 1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	200 µg/mL	MeOH	ALR-CFC-014S-2X	1 mL	10
Freon #114 1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	200 µg/mL	MeOH	ALR-CFC-010S-2X	1 mL	20
Freon #115 Chloropentafluoroethane	76-15-3	200 µg/mL	MeOH	ALR-CFC-006S-2X	1 mL	20
Freon #134a Tetrafluoroethane	811-97-2	200 µg/mL	MeOH	ALR-CFC-012S-2X	1 mL	20
Freon #142b 1-Chloro-1,1-difluoroethane	75-68-3	200 µg/mL	MeOH	ALR-CFC-002S-2X	1 mL	20
Freon #152a 1,1-Difluoroethane	75-37-6	200 µg/mL	MeOH	ALR-CFC-011S-2X	1 mL	20
Freon #160 Chloroethane	75-00-3	200 µg/mL	MeOH	ALR-CFC-004S-2X	1 mL	8
Geraniol	106-24-1	100 mg	Neat	ALR-012N	100 mg	20
		1000 µg/mL	EtOH	ALR-012S-ET-10X	1 mL	20
trans-2-Heptenal	18829-55-5	100 mg	Neat	ALR-044N	100 mg	20
		1000 µg/mL	AcCN	ALR-044S-CN-10X	1 mL	20
Heptyl paraben		100 mg	Neat	ALR-117N	100 mg	10
		100 µg/mL	MeOH	ALR-117S	1 mL	10
trans-2-Hexenal diethyl acetal	67746-30-9	100 mg	Neat	ALR-045N	100 mg	10
		1000 µg/mL	EtOH	ALR-045S-ET-10X	1 mL	10
trans-2-Hexenal dimethyl acetal	18318-83-7	100 mg	Neat	ALR-046N	100 mg	10
		1000 µg/mL	MeOH	ALR-046S-10X	1 mL	10
Hexachlorophene (HCP)	70-30-4	100 mg	Neat	ALR-118N	100 mg	10
		100 µg/mL	MeOH	ALR-118S	1 mL	10
Hexyl cinnamaldehyde	101-86-0	1000 µg/mL	EtOH	ALR-021S-ET-10X	1 mL	20
Homosalate (HMS)	118-56-9	100 mg	Neat	ALR-119N	100 mg	50
		100 µg/mL	MeOH	ALR-119S	1 mL	50
Hydroabietyl alcohol	13393-93-6	100 mg	Neat	ALR-047N	100 mg	75
		1000 µg/mL	EtOH	ALR-047S-ET-10X	1 mL	75
Hydroquinone monoethyl ether (4-Ethoxyphenol)	622-62-8	100 mg	Neat	ALR-048N	100 mg	10
		1000 µg/mL	EtOH	ALR-048S-ET-10X	1 mL	10
p-Hydroxyanisole	150-76-5	100 mg	Neat	ALR-145N	100 mg	15
		100 µg/mL	MeOH	ALR-145S	1 mL	15
4-Hydroxybenzoic acid (Paraben)	99-96-7	100 mg	Neat	ALR-069N	100 mg	10
		100 µg/mL	AcCN	ALR-069S-CN	1 mL	10
Hydroxy-citronellal	107-75-5	100 mg	Neat	ALR-006N	100 mg	20
		1000 µg/mL	AcCN	ALR-006S-CN-10X	1 mL	20
tris(Hydroxymethyl)nitromethane (Tris Nitro)	126-11-4	100 mg	Neat	ALR-169N	100 mg	10
		100 µg/mL	MeOH	ALR-169S	1 mL	10
Hydroxymethylpentylcyclohexenecarboxaldehyde	31906-04-4	100 mg	Neat	ALR-013N	100 mg	20
		1000 µg/mL	AcCN	ALR-013S-CN-10X	1 mL	20
Imidazolidinyl urea	39236-46-9	100 mg	Neat	ALR-120N	100 mg	10
		100 µg/mL	MeOH	ALR-120S	1 mL	10
a-Ionone NEW	127-41-3	100 mg	Neat	ALR-171N	100 mg	15
		100 µg/mL	MeOH	ALR-171S	1 mL	15
b-Ionone NEW	79-77-6	100 mg	Neat	ALR-172N	100 mg	15
		100 µg/mL	MeOH	ALR-172S	1 mL	15
Isobutyl paraben	4247-02-3	100 mg	Neat	ALR-121N	100 mg	20
		100 µg/mL	MeOH	ALR-121S	1 mL	20
Isoeugenol	97-54-1	100 mg	Neat	ALR-007N	100 mg	20
		1000 µg/mL	EtOH	ALR-007S-ET-10X	1 mL	20
Isopropyl paraben	4191-73-5	100 mg	Neat	ALR-122N	100 mg	20
		100 µg/mL	MeOH	ALR-122S	1 mL	20
Lanolin, anhydrous	8006-54-0	100 mg	Neat	ALR-123N	100 mg	20
		100 µg/mL	MeOH	ALR-123S-A	1 mL	20
Lauryl sarcosine	97-78-9	100 mg	Neat	ALR-124N	100 mg	20
		100 µg/mL	MeOH	ALR-124S	1 mL	20
Lead	7439-92-1	1000 µg/mL	2-5% HNO ₃	ALR-MET-04S *	100 mL	34
d-Limonene	5989-27-5	100 mg	Neat	ALR-022N	100 mg	20
		1000 µg/mL	EtOH	ALR-022S-ET-10X	1 mL	20
Linalool	78-70-6	100 mg	Neat	ALR-018N	100 mg	20
		1000 µg/mL	EtOH	ALR-018S-ET-10X	1 mL	20
Mercury	7439-97-6	1000 µg/mL	2-5% HNO ₃	ALR-MET-05S *	100 mL	34
Metabromsalon	2577-72-2	100 mg	Neat	ALR-128N	100 mg	50
		100 µg/mL	MeOH	ALR-128S	1 mL	50
7-Methoxycoumarin	531-59-9	100 mg	Neat	ALR-050N	100 mg	10
		1000 µg/mL	AcCN	ALR-050S-CN-10X	1 mL	10
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	1000 µg/mL	AcCN	ALR-051S-CN-10X	1 mL	40
4-Methoxy-m-phenylenediamine	615-05-4	100 µg/mL	MeOH	ALR-070S	1 mL	30
4-Methoxy-m-phenylenediamine-sulfate hydrate	6219-67-6	100 mg	Neat	ALR-072N	1 mL	15
		100 µg/mL	MeOH	ALR-072S	1 mL	15
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	100 mg	Neat	ALR-052N	100 mg	20
		1000 µg/mL	AcCN	ALR-052S-CN-10X	1 mL	20
4-Methyl-benzylidene camphor (4-MBC)	36861-47-9	100 mg	Neat	ALR-073N	100 mg	50
		100 µg/mL	MeOH	ALR-073S	1 mL	50
6-Methylcoumarin (6-MC)	92-48-8	100 mg	Neat	ALR-075N	100 mg	25
		100 µg/mL	MeOH	ALR-075S	1 mL	25
7-Methylcoumarin	2445-83-2	100 mg	Neat	ALR-054N	100 mg	10
		1000 µg/mL	AcCN	ALR-054S-CN-10X	1 mL	10
Methyl heptyne carbonate	111-12-6	100 mg	Neat	ALR-023N	100 mg	20
		1000 µg/mL	EtOH	ALR-023S-ET-10X	1 mL	20
5-Methyl-2,3-hexanedione (Acetyl isovaleryl)	13706-86-0	100 mg	Neat	ALR-055N	100 mg	20
		1000 µg/mL	AcCN	ALR-055S-CN-10X	1 mL	20
Methyl methacrylate monomer	80-62-6	100 mg	Neat	ALR-129N	100 mg	10
		100 µg/mL	MeOH	ALR-129S	1 mL	10
Methyl paraben	99-76-3	100 mg	Neat	ALR-130N	100 mg	10
		100 µg/mL	MeOH	ALR-130S	100 mg	10
Methyl trans-2-butenate	623-43-8	100 mg	Neat	ALR-053N	100 mg	30
		1000 µg/mL	MeOH	ALR-053S-10X	1 mL	30
Methylchloroisothiazolinone	26172-55-4	100 mg	Neat	ALR-131N	100 mg	20
		100 µg/mL	MeOH	ALR-131S	1 mL	20

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ALLERGENS	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
Methyldibromoglutaronitrile	35691-65-7	100 mg	Neat	ALR-132N
		100 µg/mL	MeOH	ALR-132S
Methylene chloride	75-09-2	100 mg	Neat	ALR-133N
		100 µg/mL	MeOH	ALR-133S
Methyleugenol	93-15-2	100 mg	Neat	ALR-061N
		1000 µg/mL	EtOH	ALR-061S-ET-10X
Monobenzyl phthalate (mBzP)	2528-16-7	100 mg	Neat	ALR-134N
		100 µg/mL	AcCN	ALR-134S-CN
Monobutyl phthalate (mBP)	131-70-4	100 mg	Neat	ALR-135N
		100 µg/mL	AcCN	ALR-135S-CN
Monoethanolamine (MEA) (2-Aminoethanol)	141-43-5	100 mg	Neat	ALR-136N
		100 µg/mL	MeOH	ALR-136S
Monoethyl phthalate (mEP)	2306-33-4	100 mg	Neat	ALR-137N
		100 µg/mL	AcCN	ALR-137S-CN
Monoethylhexyl phthalate (mEHP)	4376-20-9	100 mg	Neat	ALR-138N
		100 µg/mL	AcCN	ALR-138S-CN
Monomethyl phthalate	4376-18-5	100 mg	Neat	ALR-139N
		100 µg/mL	AcCN	ALR-139S-CN
Musk ambrette	83-66-9	1000 µg/mL	AcCN	ALR-056S-CN-10X
Nickel	7440-02-0	1000 µg/mL	2-5% HNO ₃	ALR-MET-06S *
N-Phenyl-p-phenylenediamine	101-54-2	100 mg	Neat	ALR-140N
		100 µg/mL	MeOH	ALR-140S
Oak Moss extract	90028-68-5	100 mg	Neat	ALR-026N
		1000 µg/mL	EtOH	ALR-026S-ET-10X
Octyl-dimethyl-PABA (OD-PABA)(Padimate O)	21245-02-3	100 mg	Neat	ALR-146N
		100 µg/mL	MeOH	ALR-146S
Octyl-methoxycinnamate (OMC)	5466-77-3	100 mg	Neat	ALR-144N
		100 µg/mL	MeOH	ALR-144S
4-Phenyl-3-buten-2-one	122-57-6	100 mg	Neat	ALR-058N
		1000 µg/mL	AcCN	ALR-058S-CN-10X
meta-Phenylenediamine (MPD)	108-45-2	100 mg	Neat	ALR-127N
		100 µg/mL	MeOH	ALR-127S
para-Phenylenediamine (PPD)	106-50-3	100 mg	Neat	ALR-147N
		100 µg/mL	MeOH	ALR-147S
Polyethylene glycol (PEG), appr. Molecular weight 200	25322-68-3	100 mg	Neat	ALR-149N-MW200
		100 µg/mL	MeOH	ALR-149S-MW200
Polyethylene glycol (PEG), appr. Molecular weight 400	25322-68-3	100 mg	Neat	ALR-149N-MW400
		100 µg/mL	MeOH	ALR-149S-MW400
Polyethylene glycol (PEG), appr. Molecular weight 600	25322-68-3	100 mg	Neat	ALR-149N-MW600
		100 µg/mL	MeOH	ALR-149S-MW600
Polyethylene glycol (PEG), appr. Molecular weight 1500	25322-68-3	100 mg	Neat	ALR-149N-MW1500
		100 µg/mL	MeOH	ALR-149S-MW1500
Polyethylene glycol (PEG), appr. Molecular weight 4000	25322-68-3	100 mg	Neat	ALR-149N-MW4000
		100 µg/mL	MeOH	ALR-149S-MW4000
Polyvinylpyrrolidone PVP/PA Copolymer	9003-39-8	100 µg/mL	MeOH	ALR-150S
Potassium dichromate	7778-50-9	1000 µg/mL	Water	ALR-MET-07S
Potassium sorbate	24634-61-5	100 mg	Neat	ALR-152N
		100 µg/mL	MeOH	ALR-152S
Propyl paraben	94-13-3	100 mg	Neat	ALR-153N
		100 µg/mL	MeOH	ALR-153S
Propylene glycol (PG)	57-55-6	100 µg/mL	MeOH	ALR-154S
Protocatechuic acid	99-50-3	100 mg	Neat	ALR-155N
		100 µg/mL	AcCN	ALR-155S-CN
Pyrocatechol	120-80-9	100 mg	Neat	ALR-156N
		100 µg/mL	MeOH	ALR-156S
Quaternium-15	51229-78-8	100 mg	Neat	ALR-157N
		100 µg/mL	MeOH	ALR-157S
Resorcinol	108-46-3	100 mg	Neat	ALR-158N
		100 µg/mL	MeOH	ALR-158S
Sodium hydroxide	1310-73-2	100 mg	Neat	ALR-159N
		100 µg/mL	MeOH	ALR-159S
Sodium nitrite	7632-00-0	100 mg	Neat	ALR-160N
		100 µg/mL	Water	ALR-160S-W
Talc	14807-96-6	100 mg	Neat	ALR-161N
Tetrachlorosalicylanilide	1154-59-2	100 mg	Neat	ALR-162N
		100 µg/mL	MeOH	ALR-162S
Thimerosal	54-64-8	100 mg	Neat	ALR-163N
		100 µg/mL	MeOH	ALR-163S
Thiuram (Thiram) (Tetramethylthiouam disulfide)	137-26-8	100 mg	Neat	ALR-164N
		100 µg/mL	MeOH	ALR-164S
Toluene-2,5-diamine (2,5-Diaminotoluene)	95-70-5	100 µg/mL	MeOH	ALR-166S
Tree Moss extract	90028-67-4	100 mg	Neat	ALR-025N
		1000 µg/mL	EtOH	ALR-025S-ET-10X
Tribomsalan	87-10-5	100 mg	Neat	ALR-167N
		100 µg/mL	MeOH	ALR-167S
Triethanolamine (TEA)	102-71-6	100 mg	Neat	ALR-168N
		100 µg/mL	MeOH	ALR-168S
Verbena oil (Lippia citriodora Kunth)	8024-12-2	100 mg	Neat	ALR-060N
		1000 µg/mL	EtOH	ALR-060S-ET-10X
Vinyl chloride	75-01-4	100 µg/mL	MeOH	ALR-170S

Allergens by Type

COMPOUND	CAS NO.	NEAT	SOLUTION
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EU DIRECTIVE LIST OF 26 REGULATED CONTACT ALLERGENS:

Neats are 100 mg, Solutions are in 1000 µg/mL Conc. (1 mL)

Amyl cinnamal	122-40-7	ALR-001N	ALR-001S-CN-10X
Amylcinnamyl alcohol	101-85-9		ALR-008S-ET-10X
Anisyl alcohol	105-13-5	ALR-014N	ALR-014S-ET-10X
Benzyl alcohol	100-51-6	ALR-002N	ALR-002S-ET-10X
Benzyl benzoate	120-51-4	ALR-019N	ALR-019S-ET-10X
Benzyl cinnamate	103-41-3	ALR-015N	ALR-015S-ET-10X
Benzyl salicylate	118-58-1	ALR-009N	ALR-009S-ET-10X
2-(4-tert-Butylbenzyl)propionaldehyde (technical grade)	80-54-6		ALR-017S-CN-10X
Cetone Alpha (technical grade)	127-51-5		ALR-024S-CN-10X
Cinnamal	104-55-2	ALR-010N	ALR-010S-CN-10X
Cinnamyl alcohol	104-54-1	ALR-003N	ALR-003S-ET-10X
Citral	5392-40-5	ALR-004N	ALR-004S-CN-10X
b-Citronellol	106-22-9	ALR-020N	ALR-020S-ET-10X
Coumarin	91-64-5	ALR-011N	ALR-011S-CN-10X
Eugenol	97-53-0	ALR-005N	ALR-005S-ET-10X
Farnesol	4602-84-0	ALR-016N	ALR-016S-ET-10X
Geraniol	106-24-1	ALR-012N	ALR-012S-ET-10X
Hexyl cinnamaldehyde	101-86-0		ALR-021S-ET-10X
Hydroxy-citronellal	107-75-5	ALR-006N	ALR-006S-CN-10X
Hydroxymethylpentylcyclohexene-carboxaldehyde	31906-04-4	ALR-013N	ALR-013S-CN-10X
Isoeugenol	97-54-1	ALR-007N	ALR-007S-ET-10X
d-Limonene	5989-27-5	ALR-022N	ALR-022S-ET-10X
Linalool	78-70-6	ALR-018N	ALR-018S-ET-10X
Methyl heptyne carbonate	111-12-6	ALR-023N	ALR-023S-ET-10X
Oak Moss extract	90028-68-5	ALR-026N	ALR-026S-ET-10X
Tree Moss extract	90028-67-4	ALR-025N	ALR-025S-ET-10X

Set of all 26 EU Allergens (in Solution) ALR-EU26-SET 26 x 1 mL

EU DIRECTIVE LIST OF SUBSTANCES THAT MAYBE BANNED:

Neats are 100 mg, Solutions are in 1000 µg/mL Conc. (1 mL)

Alanroot (Inula helenium)	97676-35-2	ALR-027N	ALR-027S-ET-10X
Allylthiocyanate	57-06-7	ALR-028N	ALR-028S-ET-10X
Benzyl cyanide	140-29-4	ALR-029N	ALR-029S-ET-10X
p-tert-Butylphenol	98-54-4	ALR-030N	ALR-030S-ET-10X
Chenopodium oil (wormseed oil)	8006-99-3	ALR-031N	
Diethyl maleate	141-05-9	ALR-033N	ALR-033S-ET-10X
Dihydrocoumarin	119-84-6	ALR-034N	ALR-034S-A-10X
Dimethyl citraconate	617-54-9	ALR-038N	ALR-038S-ET-10X
3,7-Dimethyl-2-octen-1-ol (6,7-Dihydrogeraniol)	40607-48-5	ALR-036N	
6,10-Dimethyl-3,5,9-undecatrien-2-one (Pseudoionone)	141-10-6	ALR-040N	ALR-040S-A-10X
Diphenylamine	122-39-4	ALR-041N	ALR-041S-ET-10X
Ethyl acrylate	140-88-5	ALR-042N	ALR-042S-ET-10X
trans-2-Heptenal	18829-55-5	ALR-044N	ALR-044S-CN-10X
trans-2-Hexenal diethyl acetal	67746-30-9	ALR-045N	ALR-045S-ET-10X
trans-2-Hexenal dimethyl acetal	18318-83-7	ALR-046N	ALR-046S-10X
Hydroabietyl alcohol	13393-93-6	ALR-047N	ALR-047S-ET-10X
Hydroquinone monoethyl ether (4-Ethoxyphenol)	622-62-8	ALR-048N	ALR-048S-ET-10X
7-Methoxycoumarin	531-59-9	ALR-050N	ALR-050S-CN-10X
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	ALR-051N	ALR-051S-CN-10X
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	ALR-052N	ALR-052S-CN-10X
7-Methylcoumarin	2445-83-2	ALR-054N	ALR-054S-CN-10X
5-Methyl-2,3-hexanedione (Acetyl isovaleryl)	13706-86-0	ALR-055N	ALR-055S-CN-10X
Methyl trans-2-butenoate	623-43-8	ALR-053N	ALR-053S-10X
Methyleugenol	95-15-2	ALR-061N	ALR-061S-ET-10X
Musk Ambrette (solution only)	83-66-9	ALR-056N	ALR-056S-CN-10X
2-Pentylidene cyclohexanone	25677-40-1	ALR-057N	
4-Phenyl-3-buten-2-one	122-57-6	ALR-058N	ALR-058S-CN-10X
Verbena oil (Lippia citriodora Kunth)	8024-12-2		ALR-060S-ET-10X

Set of 28 Allergens (in Solution) ALR-EU36-R1-SET 25 x 1 mL

SUN BLOCK:

Neats are 100 mg, Solutions are in 100 µg/mL Conc. (1 mL)

Benzophenone-3 (Bp-3)	131-57-7	ALR-081N	ALR-081S-CN
Butyl-methoxydibenzoylmethane (B-MDM). Sunblock, Parsol1789	70356-09-1	ALR-086N	ALR-086S
Homosalate (HMS)	118-56-9	ALR-119N	ALR-119S
4-Methyl-benzylidene camphor (4-MBC)	36861-47-9	ALR-073N	ALR-073S
Octyl-dimethyl-PABA (OD-PABA)(Padimate O)	21245-02-3	ALR-146N	ALR-146S
Octyl-methoxycinnamate (OMC)	5466-77-3	ALR-144N	ALR-144S

COMPOUND	CAS NO.	NEAT	SOLUTION
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PARABENS:

Neats are 100 mg, Solutions are in 100 µg/mL Conc. (1 mL)

Benzyl paraben	94-18-8	ALR-083N	ALR-083S
Butyl paraben	94-26-8	ALR-085N	ALR-085S
Ethyl paraben	120-47-8	ALR-113N	ALR-113S
Heptyl paraben		ALR-117N	ALR-117S
4-Hydroxybenzoic acid (Paraben)	99-96-7	ALR-069N	ALR-069S-CN
Isobutyl paraben	4247-02-3	ALR-121N	ALR-121S
Isopropyl paraben	4191-73-5	ALR-122N	ALR-122S
Methyl paraben	99-76-3	ALR-130N	ALR-130S
Potassium sorbate	24634-61-5	ALR-152N	ALR-152S
Propyl paraben	94-13-3	ALR-153N	ALR-153S
Protocatechuic acid	99-50-3	ALR-155N	ALR-155S-CN

PHTHALATES:

Neats are 100 mg, Solutions are in 100 µg/mL Conc. (1 mL)

Benzyl butyl phthalate	85-68-7	ALR-082N	ALR-082S
Diamyl phthalate	131-18-0	ALR-098N	ALR-098S
Dicyclohexyl phthalate	84-61-7	ALR-099N	ALR-099S
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ALR-097N	ALR-097S
Diethyl phthalate	84-66-2	ALR-110N	ALR-110S
Di-hexyl phthalate	84-75-3	ALR-100N	ALR-100S
Di-iso-decyl phthalate	26761-40-0	ALR-101N	ALR-101S
Di-iso-nonyl phthalate	68515-48-0	ALR-102N	ALR-102S
Di-iso-octyl phthalate	27554-26-3	ALR-103N	ALR-103S
Dimethyl phthalate (DMP)	131-11-3	ALR-111N	ALR-111S
Di-n-butyl phthalate (DBP)	84-74-2	ALR-104N	ALR-104S
Di-n-octyl phthalate	117-84-0	ALR-105N	ALR-105S
Monobenzyl phthalate (mBzP)	2528-16-7	ALR-134N	ALR-134S-CN
Monobutyl phthalate (mBP)	131-70-4	ALR-135N	ALR-135S-CN
Monoethyl phthalate (mEP)	2306-33-4	ALR-137N	ALR-137S-CN
Monoethylhexyl phthalate (mEHP)	4376-20-9	ALR-138N	ALR-138S-CN
Monomethyl phthalate	4376-18-5	ALR-139N	ALR-139S-CN

COMPOUND	CAS NO.	SOLUTION ONLY
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METALS: (100 mL Volume)

Solutions are in 1000 µg/mL 2-5% HNO₃, except [†] in Water

Arsenic	7440-38-2	ALR-MET-01S
Chromium	7440-47-3	ALR-MET-02S
Cobalt	7440-48-4	ALR-MET-03S
Lead	7439-92-1	ALR-MET-04S
Mercury	7439-97-6	ALR-MET-05S
Nickel	7440-02-0	ALR-MET-06S
Potassium dichromate	7778-50-9	ALR-MET-07S [†]
Zirconium	7440-67-7	ALR-MET-08S

Set of 8 Metals Solutions ALR-MET-SET 8 x 100 mL

CHLOROFLUOROCARBON PROPELLANTS (CFCs):

Solutions are in 200 µg/mL Concentration

Freon #11 Trichlorofluoromethane	75-69-4	ALR-CFC-013S-2X
Freon #12 Dichlorodifluoromethane	75-71-8	ALR-CFC-008S-2X
Freon #13 Chlorotrifluoromethane	75-72-9	ALR-CFC-007S-2X
Freon #13b1 Bromotrifluoromethane	75-63-8	ALR-CFC-001S-2X
Freon #21 Dichlorodifluoromethane	75-43-4	ALR-CFC-009S-2X
Freon #22 Chlorodifluoromethane	75-45-6	ALR-CFC-003S-2X
Freon #23 Trifluoromethane	75-46-7	ALR-CFC-015S-2X
Freon #40 Chloromethane	74-87-3	ALR-CFC-005S-2X
Freon #113 1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ALR-CFC-014S-2X
Freon #114 1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	ALR-CFC-010S-2X
Freon #115 Chloropentafluoroethane	76-15-3	ALR-CFC-006S-2X
Freon #134a Tetrafluoroethane	811-97-2	ALR-CFC-012S-2X
Freon #142b 1-Chloro-1,1-difluoroethane	75-68-3	ALR-CFC-002S-2X
Freon #152a 1,1-Difluoroethane	75-37-6	ALR-CFC-011S-2X
Freon #160 Chloroethane	75-00-3	ALR-CFC-004S-2X

Set of All ALR-CFCs ALR-CFC-SET 15 x 1 mL

Key to Catalog Numbers

N	Neat, 100 mg
S	Solution in Methanol
S-A	Solution in Acetone
S-CN	Solution in Acetonitrile
S-ET	Solution in Ethanol
S-T	Solution in Toluene
S-W	Solution in Water

100-51-6:127	18829-55-5:129	75-43-4:128	ALR-003S-ET-	ALR-023N:129
101-54-2:130	21245-02-3:130	75-45-6:129	10X:128	ALR-023S-ET-
101-85-9:127	2306-33-4:130	75-46-7:129	ALR-004N:128	10X:129
101-86-0:129	2445-83-2:129	75-63-8:128	ALR-004S-CN-	ALR-024S:127
102-71-6:130	24634-61-5:130	75-68-3:129	10X:128	ALR-024S-CN-
103-41-3:127	25013-16-5:127	75-69-4:128	ALR-005N:128	10X:127
104-27-8:129	2528-16-7:130	75-71-8:128	ALR-005S-ET-	ALR-025N:130
104-54-1:128	25322-68-3:130	75-72-9:128	10X:128	ALR-025S-ET-
104-55-2:128	25677-40-1:130	76-13-1:129	ALR-006N:129	10X:130
105-13-5:127	2577-72-2:129	76-14-2:129	ALR-006S-CN-	ALR-026N:130
106-22-9:128	26027-38-3:127	76-15-3:129	10X:129	ALR-026S-ET-
106-24-1:129	26172-55-4:129	7632-00-0:130	ALR-007N:129	10X:130
106-50-3:130	26761-40-0:128	7778-50-9:130	ALR-007S-ET-	ALR-027N:127
107-75-5:129	27554-26-3:128	78-70-6:129	10X:129	ALR-027S-ET-
107-88-0:127	30007-47-7:127	78491-02-8:128	ALR-008S-ET-	10X:127
108-45-2:130	31906-04-4:129	79-07-2:128	10X:127	ALR-028N:127
108-46-3:130	333-18-6:128	80-54-6:127	ALR-009N:127	ALR-028S-ET-
109-09-1:128	35691-65-7:130	80-62-6:129	ALR-009S-ET-	10X:127
110-80-5:128	36861-47-9:129	8006-54-0:129	10X:127	ALR-029N:127
111-12-6:129	39236-46-9:129	8006-99-3:127	ALR-010N:128	ALR-029S-ET-
111-15-9:128	40607-48-5:128	8007-00-9:127	ALR-010S-CN-	10X:127
111-42-2:128	4191-73-5:129	8007-45-2:128	10X:128	ALR-030N:127
1122-62-9:127	4247-02-3:129	8024-12-2:130	ALR-011N:128	ALR-030S-ET-
1154-59-2:130	4376-18-5:130	811-97-2:129	ALR-011S-CN-	10X:127
117-81-7:128	4376-20-9:130	83-66-9:130	10X:128	ALR-031N:127
117-84-0:128	4602-84-0:128	84-61-7:128	ALR-012N:129	ALR-033N:128
118-56-9:129	50-00-0:128	84-66-2:128	ALR-012S-ET-	ALR-033S-ET-
118-58-1:127	51229-78-8:130	84-74-2:128	10X:129	10X:128
119-84-6:128	52-51-7:127	84-75-3:128	ALR-013N:129	ALR-034N:128
120-47-8:128	531-59-9:129	85-68-7:127	ALR-013S-CN-	ALR-034S-A-
120-51-4:127	5392-40-5:128	87-10-5:130	10X:129	10X:128
120-80-9:130	54-64-8:130	87-12-7:128	ALR-014N:127	ALR-036N:128
122-39-4:128	5466-77-3:130	9003-39-8:130	ALR-014S-ET-	ALR-038N:128
122-40-7:127	57-06-7:127	91-64-5:128	10X:127	ALR-038S-ET-
122-57-6:130	57-55-6:130	92-48-8:129	ALR-015N:127	10X:128
123-91-1:128	5989-27-5:129	93-15-2:130	ALR-015S-ET-	ALR-040N:128
123359-41-1:127	615-05-4:129	94-13-3:130	10X:127	ALR-040S-A-
126-11-4:129	617-54-9:128	94-18-8:127	ALR-016N:128	10X:128
127-51-5:127	6219-67-6:129	94-26-8:127	ALR-016S-ET-	ALR-041N:128
128-37-0:127	622-62-8:129	943-88-4:129	10X:128	ALR-041S-ET-
131-11-3:128	623-43-8:129	95-70-5:130	ALR-017S:127	10X:128
131-18-0:128	67-66-3:128	97-18-7:127	ALR-017S-CN-	ALR-042N:128
131-57-7:127	67746-30-9:129	97-53-0:128	10X:127	ALR-042S-ET-
131-70-4:130	68515-48-0:128	97-54-1:129	ALR-018N:129	10X:128
1310-73-2:130	70-30-4:129	97-78-9:129	ALR-018S-ET-	ALR-044N:129
13393-93-6:129	70356-09-1:127	97676-35-2:127	10X:129	ALR-044S-CN-
137-09-7:128	74-87-3:129	98-54-4:127	ALR-019N:127	10X:129
137-26-8:130	7439-92-1:129	99-50-3:130	ALR-019S-ET-	ALR-045N:129
13706-86-0:129	7439-97-6:129	99-76-3:129	10X:127	ALR-045S-ET-
140-29-4:127	7440-02-0:130	99-96-7:129	ALR-020N:128	10X:129
140-88-5:128	7440-38-2:127	ALR-001N:127	ALR-020S-ET-	ALR-046N:129
141-05-9:128	7440-47-3:128	ALR-001S-CN-	10X:128	ALR-046S-
141-10-6:128	7440-48-4:128	10X:127	ALR-021S-ET-	10X:129
141-43-5:130	75-00-3:129	ALR-002N:127	10X:129	ALR-047N:129
14807-96-6:130	75-01-4:130	ALR-002S-ET-	ALR-022N:129	ALR-047S-ET-
150-76-5:129	75-09-2:130	10X:127	ALR-022S-ET-	10X:129
18318-83-7:129	75-37-6:129	ALR-003N:128	10X:129	ALR-048N:129

ALR-048S-ET-10X:129	ALR-078N:127	ALR-111N:128	ALR-144S:130	ALR-168S:130
ALR-050N:129	ALR-078S:127	ALR-111S:128	ALR-145N:129	ALR-169N:129
ALR-050S-CN-10X:129	ALR-079N:127	ALR-113N:128	ALR-145S:129	ALR-169S:129
ALR-051S-CN-10X:129	ALR-079S:127	ALR-113S:128	ALR-146N:130	ALR-170S:130
ALR-052N:129	ALR-080N:127	ALR-114N:128	ALR-146S:130	ALR-CFC-001S-2X:128
ALR-052S-CN-10X:129	ALR-080S:127	ALR-114S:128	ALR-147N:130	ALR-CFC-002S-2X:129
ALR-053N:129	ALR-081N:127	ALR-115S-W:128	ALR-147S:130	ALR-CFC-003S-2X:129
ALR-053S-10X:129	ALR-081S-CN:127	ALR-117N:129	ALR-149N-MW1500:130	ALR-CFC-004S-2X:129
ALR-054N:129	ALR-082N:127	ALR-117S:129	ALR-149N-MW200:130	ALR-CFC-005S-2X:129
ALR-054S-CN-10X:129	ALR-082S:127	ALR-118N:129	ALR-149N-MW400:130	ALR-CFC-006S-2X:129
ALR-055N:129	ALR-083N:127	ALR-118S:129	ALR-149N-MW400:130	ALR-CFC-007S-2X:128
ALR-055S-CN-10X:129	ALR-083S:127	ALR-119N:129	ALR-149S-MW1500:130	ALR-CFC-008S-2X:128
ALR-056N:130	ALR-084N:127	ALR-119S:129	ALR-149S-MW200:130	ALR-CFC-009S-2X:128
ALR-056S-CN-10X:130	ALR-084S:127	ALR-120N:129	ALR-149S-MW400:130	ALR-CFC-010S-2X:129
ALR-057N:130	ALR-085N:127	ALR-120S:129	ALR-149S-MW600:130	ALR-CFC-011S-2X:129
ALR-058N:130	ALR-085S:127	ALR-121N:129	ALR-149S-MW1500:130	ALR-CFC-012S-2X:129
ALR-058S-CN-10X:130	ALR-086N:127	ALR-121S:129	ALR-149S-MW600:130	ALR-CFC-013S-2X:128
ALR-060N:130	ALR-086S:127	ALR-122N:129	ALR-149S-MW200:130	ALR-CFC-014S-2X:129
ALR-060S-ET-10X:130	ALR-087N:127	ALR-122S:129	ALR-149S-MW400:130	ALR-CFC-015S-2X:129
ALR-061N:130	ALR-087S:127	ALR-123N:129	ALR-149S-MW400:130	ALR-MET-01S:127
ALR-061S-ET-10X:130	ALR-088N:127	ALR-123S-A:129	ALR-149S-MW600:130	ALR-MET-02S:128
ALR-062N:128	ALR-088S:127	ALR-124N:129	ALR-150S:130	ALR-MET-03S:128
ALR-062S:128	ALR-088S:127	ALR-124S:129	ALR-152N:130	ALR-MET-04S:129
ALR-063N:128	ALR-089N:127	ALR-127N:130	ALR-152S:130	ALR-MET-05S:129
ALR-063S:128	ALR-089S:127	ALR-127S:130	ALR-153N:130	ALR-MET-06S:130
ALR-064N:128	ALR-090N:128	ALR-128N:129	ALR-153S:130	ALR-MET-07S:130
ALR-064S:128	ALR-090S:128	ALR-128S:129	ALR-154S:130	
ALR-065N:128	ALR-091N:128	ALR-129N:129	ALR-155N:130	
ALR-065S:128	ALR-091S:128	ALR-129S:129	ALR-155S-CN:130	
ALR-066N:127	ALR-094N:128	ALR-130N:129	ALR-156N:130	
ALR-066S:127	ALR-094S-T:128	ALR-130S:129	ALR-156S:130	
ALR-067N:127	ALR-097N:128	ALR-131N:129	ALR-157N:130	
ALR-067S:127	ALR-097S:128	ALR-131S:129	ALR-157S:130	
ALR-068N:128	ALR-098N:128	ALR-132N:130	ALR-158N:130	
ALR-068S:128	ALR-098S:128	ALR-132S:130	ALR-158S:130	
ALR-069N:129	ALR-099N:128	ALR-133N:130	ALR-159N:130	
ALR-069S-CN:129	ALR-099S:128	ALR-133S:130	ALR-159S:130	
ALR-070S:129	ALR-100N:128	ALR-134N:130	ALR-160N:130	
ALR-072S:129	ALR-100S:128	ALR-134S-CN:130	ALR-160S-W:130	
ALR-073N:129	ALR-101N:128	ALR-135N:130	ALR-161N:130	
ALR-073S:129	ALR-101S:128	ALR-135S-CN:130	ALR-162N:130	
ALR-074N:127	ALR-102N:128	ALR-135S-CN:130	ALR-162S:130	
ALR-074S:127	ALR-102S:128	ALR-136N:130	ALR-163N:130	
ALR-075N:129	ALR-103N:128	ALR-136S:130	ALR-164N:130	
ALR-075S:129	ALR-103S:128	ALR-137N:130	ALR-164S:130	
	ALR-104N:128	ALR-137S-CN:130	ALR-166S:130	
	ALR-104S:128	ALR-138N:130	ALR-167N:130	
	ALR-105N:128	ALR-138S-CN:130	ALR-167S:130	
	ALR-105S:128	ALR-139N:130	ALR-168N:130	
	ALR-106N:128	ALR-139S-CN:130		
	ALR-106S:128	ALR-140N:130		
	ALR-107N:128	ALR-140S:130		
	ALR-107S:128	ALR-144N:130		
	ALR-109N:128			
	ALR-109S:128			
	ALR-110N:128			
	ALR-110S:128			