



FOOD FRAUD

High quality reference materials
for analytical testing for food authenticity.

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LGC Quality ISO 17034 | ISO/IEC 17025 | ISO 9001

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What you need to know

Food fraud continues to be one of the most urgent and rapidly evolving food risk areas. In order for food fraud prevention strategies to be effective, they should adopt an integrated approach that covers the need for identification of risks, implementation of a food fraud prevention plan, supply chain management, a culture of food safety excellence in the company, and laboratory testing.

While the increased focus on food fraud prevention is welcome, there is often a lack of practical recommendations such as for food authenticity tests, methods, sampling programs, or frequency of testing. Food authenticity testing is a complex and critical food fraud prevention countermeasure or control system as long as the program is fit for its intended purpose. The immediate need can be to detect a current incident or more often to support a food fraud prevention strategy to reduce the fraud opportunity.



Reliable analytical testing is needed to underpin this holistic approach to food fraud prevention. Whichever regulations and methods inform your analytical testing, it is essential to use reliable reference materials appropriate for your selected methods.

Our Dr. Ehrenstorfer range of reference materials for testing for the presence of food additives, flavours and adulterants has been specifically designed to support you in your fight against food fraud. With all measurements on our certificate of analysis carried out in accordance with ISO 17025 and a majority of products produced under the scope of ISO 17034 accreditation, we guarantee the highest quality reference materials.

On the following pages you will find a selection of our food additives, flavours and adulterants reference materials laid out to help you identify your many Dr. Ehrenstorfer product options for a specific analyte. Our neat reference materials enable you to tailor the scope of your testing, so you can respond quickly to changes in regulation and keep pace with demand. Our prepared solution standards minimise chemical handling required in the laboratory and reduce the time and effort needed to prepare your own solutions. This is particularly useful when you're testing against established regulatory requirements.

Visit [lgcstandards.com](https://www.lgcstandards.com) to explore our full range of available food additives, flavours and adulterants reference materials or contact us to discuss your exact needs.

If you're looking for prepared solutions and mixtures but can't find what you need, we can help. Our custom Smart Solution™ Made to Measure reference materials provide a high-quality product that's tailored for your specific analytical testing needs.

Visit [lgcstandards.com/customs](https://www.lgcstandards.com/customs)

FOOD FRAUD

Dr. Ehrenstorfer has an extensive range of neat, single solution and multicomponent solution products for the analytical testing of food additives, flavours and adulterants. On the following pages you will find an index of selected analytes to help you explore the range.

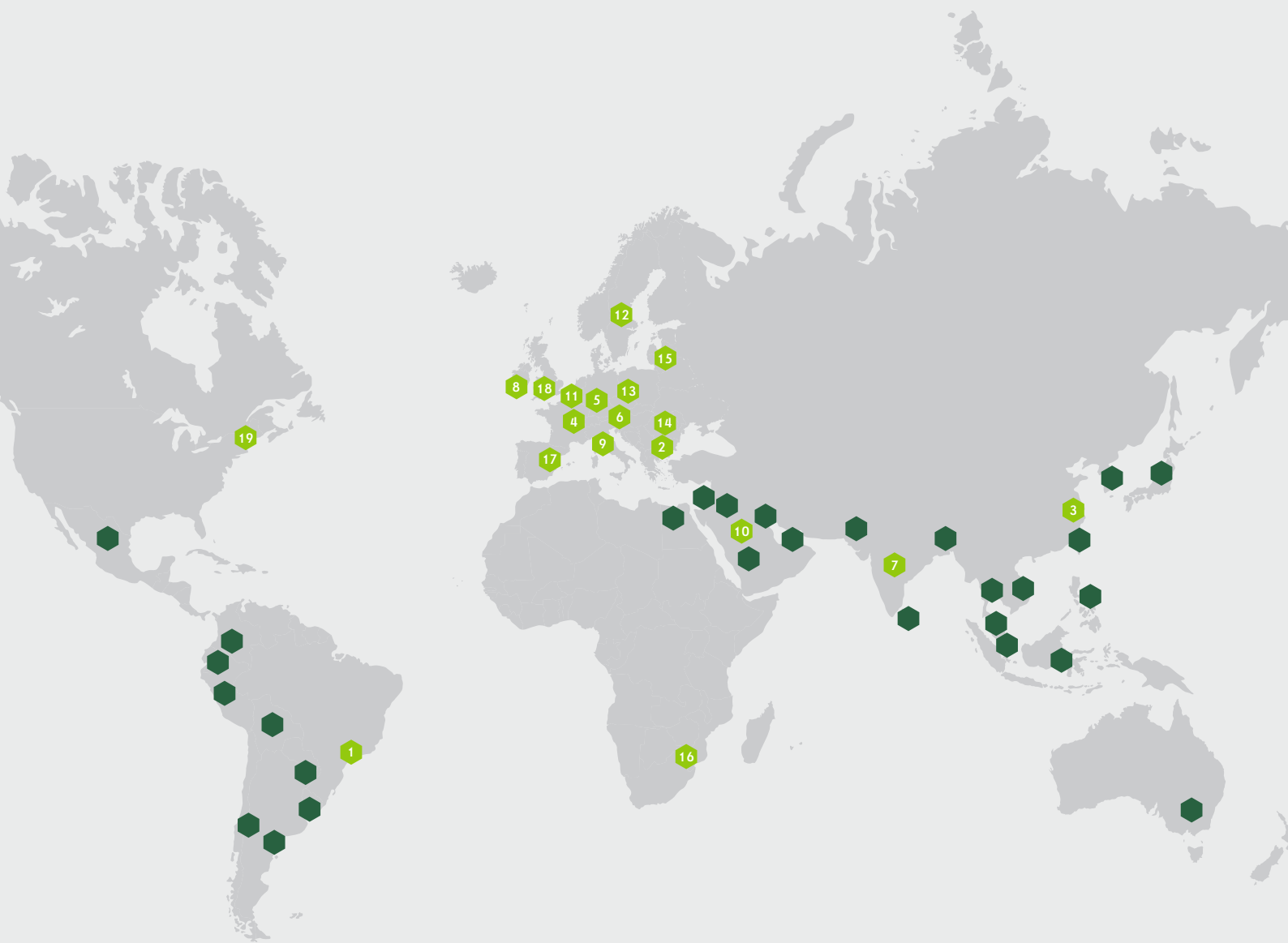
You can also visit our website to browse the full range, including our latest products. Visit lgcstandards.com/drehrenstorfer

Product Code	Analyte	Part Description	Pack Size	CAS
DRE-C14866020	(-)-Menthol	(-)-Menthol	250mg	2216-51-5
DRE-GA09011031HE	(R)-(+)-Pulegone	(R)-(+)-Pulegone 1000 µg/mL in Hexane	1mL	89-82-7
DRE-GS09011032HE	(R)-(+)-Pulegone	(R)-(+)-Pulegone 1000 µg/mL in Hexane	5x1mL	89-82-7
DRE-C14634100	(R)-Limonene	(R)-Limonene	250mg	5989-27-5
DRE-C14634200	(S)-Limonene	(S)-Limonene	250mg	5989-54-8
DRE-C14085200	1-Heneicosanol	1-Heneicosanol	100mg	15594-90-8
DRE-C17396100	1-Tetracosanol	1-Tetracosanol	100mg	506-51-4
DRE-L17396100MB	1-Tetracosanol	1-Tetracosanol 10 µg/mL in Methyl-tertbutylether	10mL	506-51-4
DRE-GS09010395ME	2,6-di(tert-butyl)-4-methylphenol D21 (BHT D21)	2,6-di(tert-butyl)-4-methylphenol D21(BHT D21) 1000 µg/mL in Methanol	5x1mL	502-99-4
DRE-C12253500	2,6-Di-tert-butyl-4-methylphenol	2,6-Di-tert-butyl-4-methylphenol	250mg	128-37-0
DRE-C17492300	3,3'-Thiodipropionic acid, bis-dodecyl ester	3,3'-Thiodipropionic acid, bis-dodecyl ester	250mg	123-28-4
DRE-C14228770	4-Hydroxybenzoic acid-benzyl ester	4-Hydroxybenzoic acid-benzyl ester	100mg	94-18-8
DRE-C14228800	4-Hydroxybenzoic acid-ethyl ester	4-Hydroxybenzoic acid-ethyl ester	250mg	120-47-8
DRE-C14228810	4-Hydroxybenzoic acid-ethyl ester sodium	4-Hydroxybenzoic acid-ethyl ester sodium	250mg	35285-68-8
DRE-C14228900	4-Hydroxybenzoic acid-isobutyl ester	4-Hydroxybenzoic acid-isobutyl ester	100mg	4247-02-3
DRE-C14229000	4-Hydroxybenzoic acid-methyl ester	4-Hydroxybenzoic acid-methyl ester	250mg	99-76-3
DRE-C14229050	4-Hydroxybenzoic acid-methyl ester sodium	4-Hydroxybenzoic acid-methyl ester sodium	250mg	5026-62-0
DRE-C14228780	4-Hydroxybenzoic acid-n-butyl ester	4-Hydroxybenzoic acid-n-butyl ester	100mg	94-26-8
DRE-C14228820	4-Hydroxybenzoic acid-n-heptyl ester	4-Hydroxybenzoic acid-n-heptyl ester	100mg	1085-12-7
DRE-C14229200	4-Hydroxybenzoic acid-propyl ester	4-Hydroxybenzoic acid-propyl ester	250mg	94-13-3
DRE-C14229230	4-Hydroxybenzoic acid-propyl ester sodium	4-Hydroxybenzoic acid-propyl ester sodium	250mg	35285-69-9
DRE-C10010800	Acesulfame potassium	Acesulfame potassium	250mg	55589-62-3
DRE-C10015500	Acetic acid	Acetic acid	1mL	64-19-7
DRE-C10016000	Acetic acid-2-ethoxyethyl ester	Acetic acid-2-ethoxyethyl ester	1mL	111-15-9
DRE-C10016400	Acetic acid-2-pentyl ester	Acetic acid-2-pentyl ester	250mg	626-38-0
DRE-C10016270	Acetic acid-3-methylbutyl ester	Acetic acid-3-methylbutyl ester	250mg	123-92-2
DRE-C10015515	Acetic acid-benzyl ester	Acetic acid-benzyl ester	1g	140-11-4
DRE-C10015520	Acetic acid-benzylphenyl ester	Acetic acid-benzylphenyl ester	100mg	102-16-9
DRE-C10015900	Acetic acid-dimethylamide	Acetic acid-dimethylamide	1mL	127-19-5
DRE-C10016100	Acetic acid-isobutyl ester	Acetic acid-isobutyl ester	1mL	110-19-0
DRE-C10016200	Acetic acid-isopropyl ester	Acetic acid-isopropyl ester	1mL	108-21-4
DRE-C10016230	Acetic acid-linalyl ester	Acetic acid-linalyl ester	250mg	115-95-7
DRE-C10016300	Acetic acid-methyl ester	Acetic acid-methyl ester	1mL	79-20-9
DRE-C10016500	Acetic acid-n-propyl ester	Acetic acid-n-propyl ester	1g	109-60-4
DRE-C10016450	Acetic acid-phenyl ester	Acetic acid-phenyl ester	250mg	122-79-2
DRE-C10015710	Acetic acid-sec-butyl ester	Acetic acid-sec-butyl ester	250mg	105-46-4
DRE-CA10015720	Acetic acid-tert-butyl ester	Acetic acid-tert-butyl ester	1mL	540-88-5
DRE-C10045300	Acrylamide	Acrylamide	250mg	79-06-1
DRE-GA09011066ME	Acrylamide	Acrylamide 1000 µg/mL in Methanol	1mL	79-06-1
DRE-C10045301	Acrylamide-2,3,3 D3	Acrylamide-2,3,3 D3	10mg	122775-19-3
DRE-C10045900	Adipic acid	Adipic acid	250mg	124-04-9
DRE-C10093000	Alitame	Alitame	50mg	80863-62-3
DRE-C10304940	Aspartame	Aspartame	250mg	22839-47-0
DRE-C10537500	Benzoic acid	Benzoic acid	250mg	65-85-0
DRE-XA10537500AC	Benzoic acid	Benzoic acid 100 µg/mL in Acetone	1mL	65-85-0
DRE-YS09010010DI	Benzoic acid	Benzoic Acid 2000 µg/mL in Dichloromethane	5x1mL	65-85-0

Product Code	Analyte	Part Description	Pack Size	CAS
DRE-C10537950	Benzoic acid potassium	Benzoic acid potassium	250mg	582-25-2
DRE-C10538000	Benzoic acid sodium	Benzoic acid sodium	250mg	532-32-1
DRE-C10537800	Benzoic acid-(2-methylpropyl) ester	Benzoic acid-(2-methylpropyl) ester	250mg	120-50-3
DRE-C10537700	Benzoic acid-benzyl ester	Benzoic acid-benzyl ester	500mg	120-51-4
DRE-YA10537700HE	Benzoic acid-benzyl ester	Benzoic acid-benzyl ester 5000 µg/mL in Hexane	1mL	120-51-4
DRE-C10537720	Benzoic acid-butyl ester	Benzoic acid-butyl ester	1g	136-60-7
DRE-C10537750	Benzoic acid-ethyl ester	Benzoic acid-ethyl ester	100mg	93-89-0
DRE-C10537780	Benzoic acid-methyl ester	Benzoic acid-methyl ester	100mg	93-58-3
DRE-CA11045800	beta-Carotene	beta-Carotene	250mg	7235-40-7
DRE-GA09010379ME	Butylated Hydroxyanisole	Butylated Hydroxyanisole 500 µg/mL in Methanol	1mL	25013-16-5
DRE-C10931750	Butyric acid	Butyric acid	1mL	107-92-6
DRE-C10931760	Butyric acid-butyl ester	Butyric acid-butyl ester	250mg	109-21-7
DRE-C10931790	Butyric acid-propyl ester	Butyric acid-propyl ester	250mg	105-66-8
DRE-C11665440	Choline bitartrate	Choline bitartrate	100mg	87-67-2
DRE-CA14202400	cis-3-Hexen-1-ol	cis-3-Hexen-1-ol	100mg	928-96-1
DRE-CA14202500	cis-3-Hexenyl acetate	cis-3-Hexenyl acetate	100mg	3681-71-8
DRE-C14862000	D-(+)-Melibiose	D-(+)-Melibiose	250mg	585-99-9
DRE-C10297900	D-Arabitol	D-Arabitol	100mg	488-82-4
DRE-C11067000	D-Cellobiose	D-Cellobiose	250mg	528-50-7
DRE-C13947500	D-Fructose	D-Fructose	250mg	57-48-7
DRE-C13996500	D-Galactose	D-Galactose	250mg	59-23-4
DRE-C14027000	D-Glucose	D-Glucose	250mg	50-99-7
DRE-C12175000	Diacetyl	Diacetyl	1g	431-03-8
DRE-C14379000	D-Isoascorbic acid	D-Isoascorbic acid	250mg	89-65-6
DRE-C14588000	D-Lactitol monohydrate	D-Lactitol monohydrate	100mg	81025-04-9
DRE-C14590800	D-Lactose	D-Lactose	250mg	63-42-3
DRE-C14730500	DL-Malic acid	DL-Malic acid	100mg	6915-15-7
DRE-C14734700	D-Maltose	D-Maltose	250mg	69-79-4
DRE-C14734950	D-Maltotriose	D-Maltotriose	100mg	1109-28-0
DRE-C14752000	D-Mannit	D-Mannit	250mg	69-65-8
DRE-C14752300	D-Mannose	D-Mannose	250mg	3458-28-4
DRE-C16813700	D-Ribose	D-Ribose	250mg	50-69-1
DRE-C16901100	D-Saccharose	D-Saccharose	250mg	57-50-1
DRE-C16972500	D-Sorbit	D-Sorbit	250mg	50-70-4
DRE-C17607500	D-Trehalose dihydrate	D-Trehalose dihydrate	250mg	6138-23-4
DRE-C17895500	D-Turanose	D-Turanose	250mg	547-25-1
DRE-C17946000	D-Xylose	D-Xylose	250mg	58-86-6
DRE-C13203400	Erythritol	Erythritol	100mg	149-32-6
DRE-C13955500	Fumaric acid	Fumaric acid	250mg	110-17-8
DRE-C13955800	Fumaric acid-dimethyl ester	Fumaric acid-dimethyl ester	250mg	624-49-7
DRE-C13998285	Gallic acid-dodecyl ester	Gallic acid-dodecyl ester	500mg	1166-52-5
DRE-C13998295	Gallic acid-octyl ester	Gallic acid-octyl ester	500mg	1034-01-1
DRE-C13998300	Gallic acid-propyl ester	Gallic acid-propyl ester	250mg	121-79-9
DRE-C14026800	Gluconolactone	Gluconolactone	500mg	90-80-2
DRE-C14037000	Glycine	Glycine	250mg	56-40-6
DRE-C14056800	Guaiacol	Guaiacol	100mg	90-05-1
DRE-C14057150	Guanosine-5'-monophosphate	Guanosine-5'-monophosphate	100mg	85-32-5
DRE-C14384900	Isoborneol	Isoborneol	100mg	124-76-5
DRE-C14479480	Isovaleric acid-benzyl ester	Isovaleric acid-benzyl ester	250mg	103-38-8
DRE-C14590900	Lactulose	Lactulose	100mg	4618-18-2
DRE-C10297500	L-Arabinose	L-Arabinose	250mg	5328-37-0
DRE-C10298000	L-Arabit	L-Arabit	100mg	7643-75-6
DRE-C10303000	L-Ascorbic acid	L-Ascorbic acid	250mg	50-81-7
DRE-C10945300	L-Camphor	L-Camphor	50mg	464-48-2
DRE-C14034410	L-Glutamic acid	L-Glutamic acid	100mg	56-86-0
DRE-C14634500	Linalool	Linalool	250mg	78-70-6

Product Code	Analyte	Part Description	Pack Size	CAS
DRE-C14655020	L-Lysine	L-Lysine	100mg	56-87-1
DRE-C15021200	L-Methionine	L-Methionine	100mg	63-68-3
DRE-C16813400	L-Rhamnose	L-Rhamnose	250mg	3615-41-6
DRE-C16972600	L-Sorbose	L-Sorbose	250mg	87-79-6
DRE-C14731000	Malonic acid	Malonic acid	250mg	141-82-2
DRE-C14734300	Maltol	Maltol	100mg	118-71-8
DRE-C14861800	Melezitose	Melezitose	250mg	597-12-6
DRE-A14866000AL-1000	Menthol	Menthol 1000 µg/mL in Acetonitrile	1mL	1490-04-6
DRE-C14866000	Menthol	Menthol	250mg	1490-04-6
DRE-C14995000	Methanol	Methanol	1 mL	67-56-1
DRE-C15290500	Monascus Red	Monascus Red	100mg	874807-57-5
DRE-E15290500	Monascus Red (technical)	Monascus Red (technical)	100mg	874807-57-5
DRE-C14328200	myo-Inositol	myo-Inositol	250mg	87-89-8
DRE-C15495000	Naringin	Naringin	250mg	10236-47-2
DRE-C11830800	N-Cyclohexylsulfamic acid sodium	N-Cyclohexylsulfamic acid sodium	250mg	139-05-9
DRE-C15501000	Neotame	Neotame	100mg	165450-17-9
DRE-C15644200	Nordihydroguaiaretic Acid	Nordihydroguaiaretic Acid	50mg	500-38-9
DRE-C17900600	N-Vanillylnonanamide	N-Vanillylnonanamide	100mg	2444-46-4
DRE-C16493000	Propionic acid	Propionic acid	1mL	79-09-4
DRE-C16493100	Propionic acid calcium	Propionic acid calcium	250mg	4075-81-4
DRE-C16493300	Propionic acid sodium	Propionic acid sodium	250mg	137-40-6
DRE-C16493350	Propionic acid-benzyl ester	Propionic acid-benzyl ester	100mg	122-63-4
DRE-C16493400	Propionic acid-butyl ester	Propionic acid-butyl ester	250mg	590-01-2
DRE-CA16493500	Propionic acid-ethyl ester	Propionic acid-ethyl ester	250mg	105-37-3
DRE-C16493600	Propionic acid-methyl ester	Propionic acid-methyl ester	1mL	554-12-1
DRE-C16493700	Propionic acid-propyl ester	Propionic acid-propyl ester	250mg	106-36-5
DRE-CA16493700	Propionic acid-propyl ester	Propionic acid-propyl ester	250mg	106-36-5
DRE-C16809200	Rebaudioside A	Rebaudioside A	25mg	58543-16-1
DRE-C16809210	Rebaudioside B	Rebaudioside B	10mg	58543-17-2
DRE-C16809220	Rebaudioside C	Rebaudioside C	10mg	63550-99-2
DRE-C16809230	Rebaudioside D	Rebaudioside D	10mg	63279-13-0
DRE-C16874000	Rubusoside	Rubusoside	10mg	64849-39-4
DRE-C16901000	Saccharin	Saccharin	250mg	81-07-2
DRE-C16901010	Saccharin sodium	Saccharin sodium	250mg	128-44-9
DRE-C16904000	Salicylic acid-hexyl ester	Salicylic acid-hexyl ester	1g	6259-76-3
DRE-C16904200	Salicylic acid-pentyl ester	Salicylic acid-pentyl ester	250mg	2050-08-0
DRE-C16971500	Sorbic acid	Sorbic acid	250mg	110-44-1
DRE-C16974740	Steviolbioside	Steviolbioside	10mg	41093-60-1
DRE-C16974750	Stevioside	Stevioside	10mg	57817-89-7
DRE-C16985300	Succinic acid-diethyl ester	Succinic acid-diethyl ester	250mg	123-25-1
DRE-C16985200	Succinic acid-di-n-butyl ester	Succinic acid-di-n-butyl ester	100mg	141-03-7
DRE-C16985800	Sucralose	Sucralose	100mg	56038-13-2
DRE-C10931220	tert-Butyl-4-hydroxyanisole (mixture of 2- and 3-isomer)	tert-Butyl-4-hydroxyanisole (mixture of 2- and 3-isomer)	100mg	25013-16-5
DRE-C10931200	tert-Butylhydroquinone	tert-Butylhydroquinone	250mg	1948-33-0
DRE-C10256000	trans-Anethole	trans-Anethole	1g	4180-23-8
DRE-C11667500	trans-Cinnamyl-alcohol	trans-Cinnamyl-alcohol	250mg	4407-36-7
DRE-C16972000	trans-trans-Sorbic acid potassium	trans-trans-Sorbic acid potassium	250mg	24634-61-5
DRE-C17608500	Triacetin	Triacetin	250mg	102-76-1
DRE-C17891500	Trioctanoin	Trioctanoin	250mg	538-23-8
DRE-C17894450	Tristearin	Tristearin	50mg	555-43-1
DRE-CA17899700	Valeric acid-ethyl ester	Valeric acid-ethyl ester	250mg	539-82-2
DRE-C17899750	Valeric acid-methyl ester	Valeric acid-methyl ester	1mL	624-24-8
DRE-C17900580	Vanillin	Vanillin	100mg	121-33-5
DRE-C17945500	Xylite	Xylite	250mg	87-99-0
DRE-C17949520	Zinc picolinate	Zinc picolinate	100mg	17949-65-4
DRE-C11668521	Citric acid, triethyl ester	Citric acid, triethyl ester	100mg	77-93-0

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