

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>1901</p> <p>Accredited to ISO/IEC 17025:2017</p>	Chivas Brothers Ltd	
	Issue No: 028	Issue date: 11 February 2026
Brands Technical Centre-South Kilmalid Stirling Road Dumbarton Scotland G82 2SS	Contact: Louise Kehoe Tel: +44 (0) 1542 783100 E-Mail: louise.kehoe@pernod-ricard.com	
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
ALCOHOLIC BEVERAGES	<u>Chemical Tests</u>	Documented In-House Methods identified by procedure number	
Liqueurs, Spirits, Spirit Drinks and intermediate production process samples.	Alcoholic strength (apparent)	BTCP-4003 by densitometry	
	Alcoholic strength (actual)	BTCP-4003 by distillation followed by densitometry	
	Colour (Tint)	BTCP-4012 by Spectrophotometer absorbance at 525nm	
	Determination of Ethyl carbamate: CAS No. 51-79-6	BTCP-4004 by Gas Chromatography-Mass Spectrometry (GC/MS)	
	Determination of Higher Alcohols, Esters and Aldehydes:	BTCP-4006 by Gas Chromatography Flame Ionisation Detector (GC-FID)	
	Acetaldehyde	CAS No. 75-07-0	
	Methanol	67-56-1	
	Acetal	105-57-7	
	Ethyl acetate	141-78-6	
	n-Propanol	71-23-8	
iso-Butanol	78-83-1		
iso- Amyl Acetate	123-92-2		
2-Methyl butanol	1565-80-6		
3-Methyl butanol	123-51-3		
Ethyl Caproate	123-66-0		
Ethyl lactate	687-47-8		
Furfural	98-01-1		



1901

Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chivas Brothers Ltd

Issue No: 028 Issue date: 11 February 2026

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used																																														
ALCOHOLIC BEVERAGES (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods identified by procedure number																																														
Liqueurs, Spirits, Spirit Drinks and intermediate production process samples (cont'd)	<p>Determination of Esters, Acids and Alcohols:</p> <table border="1"> <thead> <tr> <th></th> <th>CAS No.</th> </tr> </thead> <tbody> <tr><td>Ethyl caprylate</td><td>106-32-1</td></tr> <tr><td>Acetic acid</td><td>64-19-7</td></tr> <tr><td>Propionic acid</td><td>79-09-4</td></tr> <tr><td>Isobutyric acid</td><td>79-31-2</td></tr> <tr><td>Ethyl caprate</td><td>110-38-3</td></tr> <tr><td>Isovaleric acid</td><td>503-74-2</td></tr> <tr><td>Phenyl ethyl acetate</td><td>103-45-7</td></tr> <tr><td>Ethyl laurate</td><td>106-33-2</td></tr> <tr><td>Caproic acid</td><td>142-62-1</td></tr> <tr><td>2-phenyl ethanol</td><td>60-12-8</td></tr> <tr><td>Ethyl myristate</td><td>124-06-1</td></tr> <tr><td>Caprylic acid</td><td>124-07-2</td></tr> <tr><td>Pelargonic acid</td><td>112-05-0</td></tr> <tr><td>Ethyl palmitate</td><td>628-97-7</td></tr> <tr><td>Capric acid</td><td>334-48-5</td></tr> <tr><td>Ethyl palmitoleate</td><td>54546-22-4</td></tr> <tr><td>Cetyl Alcohol</td><td>36653-82-4</td></tr> <tr><td>Ethyl Stearate</td><td>111-61-5</td></tr> <tr><td>Ethyl Oleate</td><td>111-62-6</td></tr> <tr><td>Lauric Acid</td><td>143-07-7</td></tr> <tr><td>Ethyl linoleate</td><td>544-35-4</td></tr> <tr><td>Ethyl linolenate</td><td>1191-41-9</td></tr> </tbody> </table> <p>Determination of N-Nitrosodimethylamine: CAS No.62-75-9</p>		CAS No.	Ethyl caprylate	106-32-1	Acetic acid	64-19-7	Propionic acid	79-09-4	Isobutyric acid	79-31-2	Ethyl caprate	110-38-3	Isovaleric acid	503-74-2	Phenyl ethyl acetate	103-45-7	Ethyl laurate	106-33-2	Caproic acid	142-62-1	2-phenyl ethanol	60-12-8	Ethyl myristate	124-06-1	Caprylic acid	124-07-2	Pelargonic acid	112-05-0	Ethyl palmitate	628-97-7	Capric acid	334-48-5	Ethyl palmitoleate	54546-22-4	Cetyl Alcohol	36653-82-4	Ethyl Stearate	111-61-5	Ethyl Oleate	111-62-6	Lauric Acid	143-07-7	Ethyl linoleate	544-35-4	Ethyl linolenate	1191-41-9	<p>BTCP-4015 by Gas Chromatography Mass Spectrometry (GC-MS)</p> <p>BTCP-4005 by Gas Chromatography Nitrogen Chemiluminescence Detection (GC-NCD)</p>
	CAS No.																																															
Ethyl caprylate	106-32-1																																															
Acetic acid	64-19-7																																															
Propionic acid	79-09-4																																															
Isobutyric acid	79-31-2																																															
Ethyl caprate	110-38-3																																															
Isovaleric acid	503-74-2																																															
Phenyl ethyl acetate	103-45-7																																															
Ethyl laurate	106-33-2																																															
Caproic acid	142-62-1																																															
2-phenyl ethanol	60-12-8																																															
Ethyl myristate	124-06-1																																															
Caprylic acid	124-07-2																																															
Pelargonic acid	112-05-0																																															
Ethyl palmitate	628-97-7																																															
Capric acid	334-48-5																																															
Ethyl palmitoleate	54546-22-4																																															
Cetyl Alcohol	36653-82-4																																															
Ethyl Stearate	111-61-5																																															
Ethyl Oleate	111-62-6																																															
Lauric Acid	143-07-7																																															
Ethyl linoleate	544-35-4																																															
Ethyl linolenate	1191-41-9																																															



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Chivas Brothers Ltd
Issue No: 028 Issue date: 11 February 2026

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ALCOHOLIC BEVERAGES (cont'd) Spirit Distillates, High Strength Spirits, Bottling Strength Alcoholic Spirits	<u>Chemical Tests</u> (cont'd) Metals: Aluminium Arsenic Beryllium Calcium Cadmium Cobalt Chromium Copper Iron Potassium Lithium Magnesium Manganese Molybdenum Sodium Nickel Lead Antimony Tin Strontium Titanium Vanadium Zinc	Documented In-House Methods identified by procedure number BTCP-4301 using ICP-MS
WATER: Effluent	Settled chemical oxygen demand Range 10 – 20,000 mg/l	STLP008 using Hach Lange kits
ALCOHOLIC BEVERAGES and ETHANOLIC SIMULANTS Liqueurs, Spirits, Spirit Drinks	<u>Opinions and Interpretations</u> Analysis and related opinions and interpretations for the purpose of assessment of authenticity and adulteration	Standard operating procedure BTCP-4014 and related industry, Statutory Instruments and EC Regulations, own brand specification and comparison samples.

END