### **Schedule of Accreditation**

issued by

### **United Kingdom Accreditation Service**

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



1901

Accredited to ISO/IEC 17025:2017

Scotland

G82 2SS

#### **Chivas Brothers Ltd**

Issue No: 027 Issue date: 08 February 2024

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Dumbarton

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)  Colour (Tint)  Determination of Ethyl carbamate: CAS No. 51-79-6  Determination of Higher Alcohols, Esters and Aldehydes:		BTCP-4003 by distillation followed by densitometry
			BTCP-4012 by Spectrophotometer absorbance at 525nm
			BTCP-4004 by Gas Chromatography-Mass Spectrometry (GC/MS)
			BTCP-4006 by Gas Chromatography Flame Ionisation Detector (GC-FID)
	Acetaldehyde Methanol Acetal Ethyl acetate n-Propanol iso-Butanol iso- Amyl Acetate 2-Methyl butanol 3-Methyl butanol Ethyl Caproate Ethyl lactate Furfural	CAS No. 75-07-0 67-56-1 105-57-7 141-78-6 71-23-8 78-83-1 123-92-2 1565-80-6 123-51-3 123-66-0 687-47-8 98-01-1	

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

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used		
WATER: Effluent	Chemical Tests (cont'd)	Documented In-House Methods identified by procedure number		
	Settled chemical oxygen demand Range 10 – 20,000 mg/l	STLP008 using Hach Lange kits		
END				

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