Product list – specification	0.1 Product	12.1.5 YEASTS [BREWERS´ YEAST]		
	0.2 Version number	0.0.1	0.3 Version date	1st June 2023

A. IDENTIFICATION OF THE CONTRACTING PARTIES

0.1 SUPPLIER	0.2 BUYER
Diamond V Cedar Rapids, Iowa 52407 USA	Milkprogres - poradenství s. r. o. Nový Dvůr 242, 784 01 Červenka

B. CHARACTERISTISTICS OF THE FEED

1. General details

1.1 Name and code according to the Catalogue of Feed Materials (Commission Regulation ES 68.2013)	
Product code, name and description in English	**12.1.5 Yeasts [brewers' yeast]** All yeasts obtained from [44] *Saccharomyces cerevisiae, Saccharomyces carlsbergensis, Kluyveromyces lactis, Kluyveromyces fragilis, Torulaspora delbrueckii, Cyberlindnera jadinii* [43], *Saccharomyces uvarum*, *Saccharomyces ludwigii* or *Brettanomyces* ssp. on substrates mostly of vegetable origin such as molasses, sugar syrup, alcohol, distillery residues, cereals and products containing starch, fruit juice, whey, lactic acid, sugar, hydrolysed vegetable fibres and fermentation nutrients such as ammonia or mineral salts.
Trade name	**Diamond V Original XPC$_{TM}$ LS**
Product code, name and description in Czech	**12.1.5 Kvasnice inaktivované [pivovarské kvasnice, v příslušných případech inaktivované]** Celé kvasnice (33) a jejich části (34) získané z Saccharomyces bayanus, Saccharomyces cerevisiae, Saccharo myces pastorianus, Saccharomyces carlsbergensis, Kluyveromyces lactis, Kluyveromyces marxianus, Metsch nikowia pulcherrima, Metschnikowia fructicola, Torulaspora delbrueckii, Cyberlindnera jadinii (35), Saccharo mycodes ludwigii, Wickerhamomyces anomalus, Debaryomyces hansenii, Pichia guilliermondii, Yarrowia lypo litica nebo Brettanomyces ssp. na substrátu / kultivačním médiu sestá vajícím ze zdroje uhlíku většinou rostlinného původu, zdroje dusíku rostlinného nebo chemického původu, vitaminů a minerálních látek.
1.2 Name and code according to GMP+International	
Product code, name and title according to GMP+:	**12.005 Yeast dried, inactivated** All yeasts and parts thereof obtained from Saccharomyces cerevisiae, Saccharomyces carlsbergiensis, Kluyveromyces lactis, Kluyveromyces fragilis, Torulaspora delbrueckii, Candida utilis/Pichia jadinii, Saccharomyces uvarum, Saccharomyces ludwigii or Brettanomyces ssp. (The usage name of yeast strains may vary from the scientific taxonomy, therefore, synonyms of the yeast strains listed could also be used) on substrates mostly of vegetable origin such as molasses, sugar syrup, alcohol, distillery residues, cereals and products containing starch, fruit juice, whey, lactic acid, sugar, hydrolysed vegetable fibres and fermentation nutrients such as ammonia or mineral salts. The product is dried.

1.3 Origin	USA	1.4 Producer	***Diamond V*** South Plant [GMP000100] PO Box 74570, 2575 60th Avenue SW -, 52405 Cedar Rapids, Iowa, United States
1.5 GMP+ status of feed:	**Zajištěno GMP+FSA/GMP+FSA assured**		

2. Characteristics

2.1 Qualitative parametres (weight %):	2.2 Mandatory declared characteristics according to:	
Protein 22% **Moisture** 11% **Crude Fat, not less than 1,5 %** **Crude Fiber, not more than 25,0%** **Ash, (Max) 9,0 %** **Typical Analysis (as-fed):**	**a) Catalogue of Feed materials (EC 68.2013):** **Moisture**, if < 75 % a > 97 % **Crude protein if moisture** < 75 % Propionic acid if > 0,5 %	**b) EC767/2009Sb, annex 5:** Crude protein, if > 10% Crude fiber Crude fat if > 10 % Starch if > 30 % Total sugar as sucrose if > 10 % Ash insoluble in HCl, if > 3.5 % of dry matter

Pests: 0		

3. Composition

3.1 Raw materials	**Saccharomyces cerevisiae yeast and the media on which it was grown, consisting of roughage products, processed grain by-products, and cane molasess**		
3.2 Additives	-	**3.3 Processing aids**	-Air and Water
3.4 Genetically modified organisms:	Please see attached statement for XPCLS		
3.5 Animal protein:	This product contains no animal resources or products,it contains only products of plant origin.		

4. Max. limits of undesirable substances	**Limit**	
	Action	**Rejection**
Salmonella: [20] Explanation of 0+: this norm does not apply to each individual sample. In a particular period of time the Salmonella incidence at company level should approach 0 % (= 0+).	-	Absent in 25 gr
Antibacterial inhibition		< 15 mm
Moulds	10^6 CFU/g	
Yeast a) Feed materials≤ 12 % moisture content or aw-value ≤ 0.95 10 6 CFU/g b) Feed materials ≥ 12 % moisture content or aw value ≥ 0.95	10^6 CFU/g -	
Crotalaria spp.		100 mg/kg
Datura sp.		1,000 mg/kg
Seeds and husks from Ricinus communis L., Croton tiglium L. and Abrus precatorius L. as well as their processed derivatives (in so far determinable by analytical microscopy), separately or in combination		10 mg/kg
Volatile mustard oil		100 mg/kg (calculated as allylisothiocyanate)
Free gossypol		20 mg/kg
Weed seeds and unground and uncrushed fruits containing alkaloids, glucosides or other toxic substances separately or in combination including		3,000 mg/kg
Dioxiny (zdroj: **Gmp+BA1/TS1.5, 2002/32/EC, EC no. 1275/2013)**	0,5 – 0,75 ng WHO-PCDD/F-TEQ/kg	
Sum of dioxins and dioxin-like PCBs		1.25 ng WHOPCDD/F-PCBTEQ/kg
Dioxin-like PCBs 18 (sum of polychlorinated biphenyls (PCBs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO- TEFs (toxic equivalency factors, 2005)	0.35 ng WHOPCB-TEQ/kg	
Non-dioxin-like PCBs (sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153 and PCB 180 (ICES – 6))	-	Max 10 µg/kg (ppb)
Hydrocyanic acid		Max. 50 mg/kg
DON (Deoxynivalenol) - Source: 2006/576/EC	8 mg/kg	-
Zearalenon (Source: 2006/576/EC)	2 mg/kg	-
Ochratoxin A (Source:2006/576/EC, Method: -.)	0,25 mg/kg	-
Fumomisin (Source: GMP+BA1)	-	-
Aflatoxin B1 (GMP+BA1, TS1.5, QM Milch) - Feed materials intended for (direct) delivery to dairy farmers **- Feed materials** **- Feed materials delivered to QM-Milch**		Max 0,005 mg/kg Max. 0,02 mg/kg Max. 0,001 mg/kg
T-2 a HT-2 toxin, sum of (Source:GMP+BA1/TS1.5, 2013/165/EC)	500 µg/kg	-
Endosulfan Feed materials and compound feed with the exception of: - soybean and products derived from the processing thereof, except crude soybean oil	0,1 mg/kg 0,5 mg/kg	-

Undesirable substances	Rejection limit	**UNDESIRABLE SUBSTANCES**	Rejection limit

Cadmium (Cd), zdroj: **Gmp+BA1, 2002/32/EC, EC no 1275/2013**	Max 1 mg/kg	**Arsen**	RL: Max 2 mg/kg
Cuprum	Max 0,1 mg/kg	**Plumbum/Lead**	RL: Max 5 mg/kg
Mercury	Max. 0,1 mg/kg	**Aldrin, dieldrin**	0,01 mg/kg
DDT (sum of DDT-, DDD and DDE-isomers)	Max 0,05 mg/kg	**Endrin**	0,01 mg/kg
Chlordan	Max. 0,02 mg/kg	**Fluorin**	Max. 150 mg/kg
Hexachlorocyklohexane (HCH) - alfa isomer - **Beta-isomer** - **Gamma-isomer**	 0,02 mg/kg 0,01 mg/kg 0,2 mg/kg	**Nitrites**	Max. 15 mg/kg
Heptachlor	0,01 mg/kg	**Hexachlorobenzene**	Max. 0,01 mg/kg

5. Product standards and requirements

5.1 Legislative requirements

Commission Regulation (EU) 2017/1017 of 15 June 2017 amending Regulation (EU) No 68/2013 on the Catalogue of feed materials Regulation (EC) No 1831/2003 of the European Parliament and of the Council of 22 September 2003 on additives for use in animal nutrition
No EC/767/2009 on the placing on the market and use of feed; No 2002/32/EC on undesirable substances in feed.
No 1829/2003 on genetically modified food and feed; No 1830/2003 concerning the traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms
No 999/2001 **laying down rules for the prevention, control and eradication of certain transmissible spongiform encephalopathies**

5.2 Normative requirements

GMP+B3/GMP+FSA Trade, Collection and Storage & Transhipment;

GMP+BA1/TS 1.5 Specific Feed Safety Limits

5.3 Agreements with customers, suppliers	**-**
5.4 Tolerances according to 4R 767/2009	**-**

6. Other features

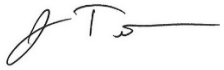
6.1 Packaging	6.2 Product number:	6.3 Storage
Bags (25 kg) and Totes (1000 kg)	086 (25 kg) and 300 (1000 kg totes)	In dry, cool, clean and well ventilated stock spaces.

C. PRODUCT CHARACTERISTICS

1. Physical characteristics	2. Intended use:	3. Reasonably expected incorrect handling or misuse of the product
Original XPC$_{TM}$ LS is a concentrated, low inclusion form of Diamond V Yeast Culture.	It is a nutritional feed ingredient designed for further manufacture of nutritionally balanced feed for all classes of livestock, poultry, equine and pets.	Off-label use
4. Shelf life:	**5. Instructions for processing:**	**6. Dosage instructions:**
24 months from date of manufacture	-	See label

7. Transport instructions	8. Labeling
-	**Label is an integral part of specification**, see annex 1, version 05_23
9. Storage instructions	Store this product in a cool, dry environment. Avoid generating dust during handling. Use local exhaust and ventilation during handling to prevent dust accumulations. Avoid strong oxidizing agents, moisture.

D. SIGNATURE

On behalf of DIAMOND V:  In Cedar, August 3rd 2023	On behalf of Milkprogres – poradenství s. r. o.: Mgr. Iva Novotná In Nový Dvůr, June 1st 2023