

Microbiological Requirements for Raw Materials of the Hügli Group*

In the Hügli Group with the company sites* in Switzerland, Germany, Czech Republic and the UK, we have harmonized the microbiological requirements for raw materials as a minimum standard which are categorized by material groups. We would like to provide an objective basis for assessing the microbiological-hygienic state in the future cooperation with our suppliers.

Gradually these new microbiological criteria will be integrated into our specification agreements. Due to the variety of specifications, this will take some time and will be done in the context of further updates. Therefore, these microbiological requirements are already on 01.01.2014 effective for samplings and deliveries of the raw materials, although in the existing specification agreements with you there might be differing values.

The microbiological standards are based on a guidance and warning level concept. It is based on the type and amount of certain microorganisms that are relevant for assessing the hygienic state of the respective raw material and their use in our finished products. We oriented ourselves, wherever possible, to industry-specific standards (e.g. DGHM), which should be already familiar to you.

Our specification target is the guidance value. Values below this guideline value ("m") are acceptable and the material can be delivered by you and used by Hügli without any restrictions. Values above the warning value ("M") are definitely out of spec and the material will be rejected.

Values between guidance and warning value will be accepted only in exceptional cases: i.e. either by prior arrangement (e.g. prior to the closure of the contract because of "poor" climatic conditions during harvest) or by exceptional cases / single deliveries. However, we also have in such exceptional cases the right to claim and require the supplier to take corrective measures. If there is a greater frequency of those deliveries between m and M we will have the right to reject delivery and request replacement.

Attached you receive the defined microbiological requirements. The compliance will be mandatory from 01/01/2014. Should you have any further technical questions to the specific guidance and warning level concept, please contact Mr Falter (michael.falter@huegli.de).

Group Function Supply Chain / QA

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raw material group	Total viable count (TVC) cfu/g		yeasts cfu/g		moulds cfu/g		coagulase-pos Staphilococcus cfu/g		Clostridium Perfringens cfu/g		Salmonella		Enterobacteriaceae cfu/g		BacCereus cfu/g		E.coli cfu/g		Listeria Mono cfu/g		Coliforme cfu/g		Sulfit anaerobic spore forming bacteria cfu/g	
	m	M	m	M	m	M	m	M	m	M		in unit [g]	m	M	m	M	m	M	m	M	m	M	m	M
additives	10.000	100.000	100	1.000	100	1.000					0	25					10	100						
animal fat	1.000	10.000	10	100	10	100					0	25	10	100			0	10						
cereal and flakes\all	100.000	1.000.000			10.000	100.000	100	1.000			0	25	1.000	10.000	1.000	10.000	100	1.000						
cocoa\chocolate	50.000	100.000									0	250	100	1.000			10	100						
cocoa\cocoa	10.000	100.000									0	250	100	1.000			9	100						
coffee\coffee	10.000	100.000									0	250	100	1.000			9	100						
compound\whipping agent, creamer	10.000	100.000	100	1.000	100	1.000					0	25	10	100			0	10						
dairy products\cheese					1.000	10.000	100	1.000			0	25					100	1.000	0	0				
dairy products\milk, laktose, whey, cream	10.000						10				0	25	9						0	0				
egg products\egg products	10.000										0	25	10											
fish and seafood	100.000	1.000.000					100	1.000			0	25					10	100						
flavours	10.000	100.000	100	1.000	100	1.000					0	25					10	100						
flours\all	1.000.000	10.000.000	1.000	10.000	10.000	100.000	100	1.000			0	25	100.000	1.000.000	100	1.000	10	100					100	1.000
fruit and fruit powder	100.000	1.000.000			10.000	100.000					0	25	100	1.000			10	100						
meat/all	10.000	100.000					100	1.000			0	25					0	100						
meat/beef extract	50.000	100.000	500	1.000	500	1.000	100	1.000			0	25			1.000	10.000	10	100			10	100		
mushrooms	1.000.000	10.000.000	10.000	100.000	10.000	100.000	100	1.000			0	25	10.000	100.000	1.000	10.000	100	1.000					1.000	10.000
native & modified starches	10.000	100.000	200	1.000	200	1.000					0	25					0	10						
pasta\egg, without egg					1.000	10.000	1.000	10.000			0	25	1.000	10.000	1.000	10.000	100	1.000					1.000	10.000
protein concentrates\textured&powder	10.000	100.000	100	1.000	100	1.000	0	10			0	25	10	100			10	100					100	1.000
salt	100	1.000									0	25					0	0						
spices and herbs	1.000.000	10.000.000			100.000	1.000.000					0	25	10.000	100.000	1.000	10.000	1.000	10.000					1.000	10.000
sugars	1.000	10.000	100	1.000	100	1.000					0	25					0	0					10	100
vegetable fat	1.000	10.000	10	100	10	100					0	25	10	100			0	10						
vegetables	1.000.000	10.000.000	10.000	100.000	10.000	100.000	100	1.000			0	25	10.000	100.000	1.000	10.000	100	1.000					1.000	10.000
vinegar\vinegar	100	1.000									0	25					0	0						
yeast\yeast extracts	10.000	100.000	100	1.000	100	1.000	10	100			0	25			100	1.000	10	100						