



Orthodox Union

Letter of Certification

Union of Orthodox Jewish Congregations of America
איחוד קהילות האורתודוקסים באמריקה

בס"ד

May 17, 2016

This is to certify that the following product(s) prepared by

Lonza Ltd., 90 Boroline Road, Allendale, NJ 07410

at the following facilitie(s) are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Lonza AG, Visp, SWITZERLAND

Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza			
• Acetaldehyde	OUV2-582E015	Pareve	Symbol not required.
• Acetaldehyde	OUV4-CF80C92	Pareve	Certified when bulk shipped in OU approved carriers.
• Acetic Acid Anhydride	OUIW4-FA7ACFB	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• DHAid (TM) 350-CL	OUIV3-F2C954A	Pareve	Ⓢ Symbol required.
• Ethyl Acetoacetate	OUIV4-D41C69D	Pareve	Certified when bulk shipped in OU approved carriers.
• Gamma-Butyrobetaine	OUIV2-402CB5E	Pareve	Symbol not required.
• HMB	OUIV3-A1D767C	Pareve	Ⓢ Symbol required.

Placing the OU logo on products not listed above constitutes an unauthorized use of the OU symbol, which is a federally registered trademark.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

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Lonza Ltd. (continued)

Lonza AG, Visp, SWITZERLAND

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• MemreePlus - 30L <i>15 kg drum.</i>	OUV3-0201726	Pareve	Ⓢ Symbol required.
• MemreePlus - 40P <i>15 kg drum.</i>	OUV3-D61F248	Pareve	Ⓢ Symbol required.
• MemreePS - 20L <i>30 kg drum.</i>	OUV3-BE4C2ED	Pareve	Ⓢ Symbol required.
• MemreePS - 50P <i>15 and 25 kg drums.</i>	OUV3-82C3D93	Pareve	Ⓢ Symbol required.
• MemreePS - 70P <i>15 and 25 kg drums.</i>	OUV3-4931A1C	Pareve	Ⓢ Symbol required.

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Lonza Ltd. (continued)

Lonza AG, Visp, SWITZERLAND

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Methyl Acetoacetate	Ouw4-B318352	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
• Niacin min. 99.5%	Ouv3-3948BB8	Pareve	Ⓢ Symbol required.
• Niacin USP FCC	Ouv3-D208ED4	Pareve	Ⓢ Symbol required.
• Niacin USP Granular	Ouv3-6CB041C	Pareve	Ⓢ Symbol required.
• Niacin USP Granular Special	Ouv3-98682B5	Pareve	Ⓢ Symbol required.
• Niacin USP Special	Ouv3-D32D019	Pareve	Ⓢ Symbol required.
Brand: Mfg under license for The Nutrasweet Co. by Lonza Ltd			
• Neotame	Ouv2-1EB2537	Pareve	Symbol not required.
<i>Certified only when bearing Lot Numbers: NL10801, NL10802, NL10803, NL10804, or NL10805.</i>			

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Lonza Biotec s.r.o., Kourim, CZECH REPUBLIC

Product Name	UKD-ID	Status	Certification Requirements
Brand: Carnipure (R)			
• L-Carnitine (50% in Water)	OUV2-48BA53B	Pareve	Symbol not required.
• L-Carnitine Crystalline	OUV2-0A27A0F	Pareve	Symbol not required.
• L-Carnitine L-Tartrate	OUV2-94B0E0B	Pareve	Symbol not required.
• L-Carnitine-Tartrate Micronized	OUV2-AD284E7	Pareve	Symbol not required.
• Levocarnitine EP	OUV3-C912A76	Pareve	Ⓢ Symbol required.
• Levocarnitine Tartrate	OUV2-6DCED50	Pareve	Symbol not required.
• Levocarnitine, Usp	OUV2-D8B6484	Pareve	Symbol not required.
Brand: Lonza			
• 2-Fucosyllactose	OULD3-B75967E	Dairy	Ⓢ-D Symbol required.
• 916608 Biomass N600	OUV3-2E45A36	Pareve	Ⓢ Symbol required.
• 916609 Biomass N900	OUV3-F5A9217	Pareve	Ⓢ Symbol required.

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Lonza Guangzhou Nansha Ltd.-Guangzhou, Nansha, Guangzhou, Guangdong, P.R. CHINA

Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza			
• Carnipure Crystalline	OUV2-4686117	Pareve	Symbol not required.
• Carnipure Tartrate	OUV2-638CF82	Pareve	Symbol not required.
• Niacinamide DC	OUV2-B356E61	Pareve	Symbol not required.
• Niacinamide PC	OUV2-11DC69B	Pareve	Symbol not required.

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Lonza Ltd.-Williamsport, Williamsport, PA

Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza			
• 00220570 GLYCOSPERSE O-20(RSPO MB) KFG/SCHL-490LB	OUW3-DC5D0AA	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• 00220571 GLYCOSPERSE O-20 KFG (RSPO MB) /ECDT-2400	OUW3-469B354	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• 00220572 GLYCOSPERSE O-20 KFG (RSPO MB) /BULK	OUW5-F519544	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• 00220573 GLYCOSPERSE O-20KFG (nGMO RSPO MB) SCHL490	OUW3-E798F4A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• 00220574 GLYCOSPERSE O-20KFG (nGMO RSPO MB) /2204LB	Ouw3-D4D2421	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• 00220575 GLYCOSPERSE O-20KFG (nGMO RSPO MB) /BULK	Ouw5-AB49B39	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• 1010612 Glycosperse O-20 KFG (Non-GMO)	Ouw3-8A7BFF2	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• 192332 Glycosperse TS-20 KFG	Ouw3-E36AF96	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• 212720 Glycomul TS LAV KFG/BAG	Ouw3-8F02E8C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Aldo DO KFG	Ouv3-D4E081C	Pareve	Ⓢ Symbol required.
• Aldo DO KFG	Ouv5-83818F2	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldo HMO KFG	Ouv3-32F3DA7	Pareve	Ⓢ Symbol required.
• Aldo HMO KFG/SCHL-425	Ouv3-DD61353	Pareve	Ⓢ Symbol required.
• Aldo HMS KFG	Ouv3-2D061DF	Pareve	Ⓢ Symbol required.
• Aldo HMS KFG (FP)	Ouv3-04EA562	Pareve	Ⓢ Symbol required.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Aldo HMS KFG (Non-GMO)	OUV3-276C9FC	Pareve	Ⓢ Symbol required.
• Aldo HMS KFG (Non-GMO)	OUV5-666EE17	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldo HMS SBO KFG (50 Pound Bags)	OUV3-7B5CD29	Pareve	Ⓢ Symbol required.
• Aldo LP KFG	OUV3-385C9E1	Pareve	Ⓢ Symbol required.
• Aldo MCT KFG	OUV3-2587910	Pareve	Ⓢ Symbol required.
• Aldo MCT KFG	OUV5-7A5E342	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldo MCT Special KFG	OUV3-94B002E	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Aldo MCT-B KFG	OUV3-BBE1E3E	Pareve	Ⓢ Symbol required.
• Aldo MCT-B KFG	OUV5-436C74D	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldo MLD KFG	OUV3-C469D85	Pareve	Ⓢ Symbol required.
• Aldo MO KFG	OUV3-E817E63	Pareve	Ⓢ Symbol required.
• Aldo MO KFG (Non-GMO)	OUV3-FC83FBB	Pareve	Ⓢ Symbol required.
• Aldo MO-PG KFG	OUV3-4172FEA	Pareve	Ⓢ Symbol required.
• Aldo MS #2 KFG	OUV3-FAAB6EB	Pareve	Ⓢ Symbol required.
• Aldo MS #2 Special KFG	OUV5-EEA0EA7	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Aldo MS BO KFG	OUV3-03DCAF1	Pareve	Ⓢ Symbol required.
• Aldo MS BO KFG	OUV5-D6CB27B	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldo MS BO KFG (50 Pound Bags)	OUV3-8723DAE	Pareve	Ⓢ Symbol required.
• Aldo MS KFG	OUV3-1ACD061	Pareve	Ⓢ Symbol required.
• Aldo MSD KFG	OUV3-C972539	Pareve	Ⓢ Symbol required.
• Aldo MSLG KFG	OUV5-173BBC8	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldo MSLG KFG (Non-GMO)	OUV3-C7C978B	Pareve	Ⓢ Symbol required.
• Aldo PGDC KFG	OUV3-9DEBEF9	Pareve	Ⓢ Symbol required.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Aldo PGHMS KFG	O UW3-1C249D8	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Aldo PGHMS KFG	O UW5-8F98F9B	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• Aldo PGME-90 Beads KFG	O UV3-301E7AE	Pareve	Ⓢ Symbol required.
• Aldo PGME-90 KFG	O UV3-8DB96F9	Pareve	Ⓢ Symbol required.
• Aldospere 38/62 KFG	O UV3-8128EC8	Pareve	Ⓢ Symbol required.
• Aldospere 38/62 KFG	O UV5-D27F828	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Aldospere 40/60 KFG	OUV3-4765D17	Pareve	Ⓢ Symbol required.
• Aldospere MO-20 KFG <i>Made with Soybean Oil.</i>	OUV3-44E8B71	Pareve	Ⓢ Symbol required.
• Aldospere MS-20 KFG	OUV3-0283D51	Pareve	Ⓢ Symbol required.
• Aldospere MS-20 KFG	OUV5-F0D0545	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldospere O-20 KFG <i>Made with Soybean Oil.</i>	OUV3-374093D	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Aldospere O-20 KFG HM <i>Made with Soybean Oil.</i>	OUV3-43FE257	Pareve	Ⓢ Symbol required.
• Aldospere O-20 KFG HM <i>Made with Soybean Oil.</i>	OUV5-828AC10	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Aldospere TS-20 KFG	OUV3-BC092A5	Pareve	Ⓢ Symbol required.
• Aldospere TS-40 KFG	OUV3-8BDB7EA	Pareve	Ⓢ Symbol required.
• Equinox Stabilizer - 15	OUV3-FF66F7E	Pareve	Ⓢ Symbol required.
• Glycolube 740 VEG KFG	OUV3-D528260	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Glycolube 825 KFG	OUV3-64C2509	Pareve	Ⓢ Symbol required.
• Glycolube 825 KFG	OUV5-811CEC0	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Glycolube AFA-1 VEG K	OUV3-66EF89F	Pareve	Ⓢ Symbol required.
• Glycolube P K	OUV3-530CE14	Pareve	Ⓢ Symbol required.
• Glycomul L KFG	OUV5-D5DF1D7	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Glycomul L KFG	Ouw3-66B7474	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Glycomul L KFG (Non-GMO)	OUV3-AE53F8F	Pareve	Ⓢ Symbol required.
• Glycomul O KFG	O UW3-58C4470	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Glycomul O KFG	O UW5-CD9F31F	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• Glycomul O KFG (Non-GMO)	O UV3-27EDA0D	Pareve	Ⓢ Symbol required.

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Brand: Lonza (continued)			
• Glycomul S KFG	Ouw3-E034250	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Glycomul S KFG	Ouw5-CC37B7C	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• Glycomul S Non-GMO KFG	Ouw3-89D09D2	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Glycomul SF KFG	Ouv3-A53C47C	Pareve	Ⓢ Symbol required.
• Glycomul TS KFG	Ouw3-D0EC94A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Glycosperse L-20 KFG	O UW3-23CF18C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Glycosperse L-20 KFG	O UW5-3B99897	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• Glycosperse L-20 KFG (Non-GMO)	O UV3-C363CA7	Pareve	Ⓢ Symbol required.
• Glycosperse O-20 "IP" Polysorbate 80 <i>Not for Passover.</i>	O UV3-7E60390	Pareve	Ⓢ Symbol required.

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 05/31/2017

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Union of Orthodox Jewish Congregations of America
איחוד קהילות האורתודוקסים באמריקה

בס"ד

May 17, 2016

Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

This is to certify that the following product(s) prepared by this company at the facilitie(s) listed above are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Glycosperse O-20 "IP" Polysorbate 80 <i>Not for Passover.</i>	OUV5-D4CD115	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Glycosperse O-20 KFG	O UW3-156E9D0	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Glycosperse O-20 KFG	O UW5-6D3AFE2	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Glycosperse O-20 KFG (Non-GMO)	Ouw5-F253D5D	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• Glycosperse O-5 KFG/SCHL-470	Ouv3-B2DA863	Pareve	Ⓢ Symbol required.
• Glycosperse S-20 "IP" KFG Polysorbate 60	Ouv3-84E538C	Pareve	Ⓢ Symbol required.
• Glycosperse S-20 "IP" KFG Polysorbate 60	Ouv5-00D05DC	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Glycosperse S-20 KFG	O UW3-F91FC51	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Glycosperse S-20 KFG	O UW5-8F335E1	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required. Certified for Passover and year-round use.
• Glycosperse S-20 KFG (Non-GMO)	O UW3-285248A	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• GLYCOSPERSER S-20 KFG K4P (NonGMO)	O UW3-78CCC3C	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Pegosperser 1500 MS-B KFG	O UV3-0E4B30C	Pareve	Ⓢ Symbol required.

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Lonza Ltd. (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Pegospere 400 MO	OUV3-B80A50B	Pareve	Ⓢ Symbol required.
• Pegospere 400 MO	OUV5-6E14C8A	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Pegospere 400 MS	OUV3-8CDEB0C	Pareve	Ⓢ Symbol required.
• Polyaldo 10-12-SPO KFG	OUV3-5482F78	Pareve	Ⓢ Symbol required.
• Polyaldo 10-1-CC KFG	OUV3-935A1F4	Pareve	Ⓢ Symbol required.
• Polyaldo 10-1-O KFG	OUV3-99A30EB	Pareve	Ⓢ Symbol required.
• Polyaldo 10-1-O KFG	OUV5-2276C3F	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Polyaldo 10-1-S KFG	OUV3-9F71BEC	Pareve	Ⓢ Symbol required.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Polyaldo 10-2-P KFG	OUV3-73B08CD	Pareve	Ⓢ Symbol required.
• Polyaldo 10-2-P KFG	OUV5-D9E35A1	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Polyaldo 10-4-0 KFG In Drums	OUV3-593AFC0	Pareve	Ⓢ Symbol required.
• Polyaldo 10-6-0 KFG	OUV3-5A82FBA	Pareve	Ⓢ Symbol required.
• Polyaldo 3-0.9-SPO KFG	OUV3-23E6E28	Pareve	Ⓢ Symbol required.
• Polyaldo 3-0.9-SPO KFG	OUV5-F6156FC	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Polyaldo 3-1-O KFG	OUV3-DE98FDD	Pareve	Ⓢ Symbol required.

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Lonza Ltd. (continued)

Lonza Ltd.-Williamsport, Williamsport, PA

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Polyaldo 3-4-0 KFG	Ouw3-D3A0421	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• Polyaldo 6-4-O KFG	Ouv3-C98C2BD	Pareve	Ⓢ Symbol required.
• Polyaldo 6-8-SPO KFG	Ouv3-8589E89	Pareve	Ⓢ Symbol required.
• Polyaldo DGDO KFG (Non-GMO) 10-10-O	Ouv3-285F2F9	Pareve	Ⓢ Symbol required.
• Polyaldo HGDS KFG (6-2-S)	Ouw3-8588545	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>LPK-200</i>			
• Polyaldo HGDS KFG (6-2-S)	Ouw3-B519C92	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Box-50.</i>			

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Lonza Ltd. (continued)

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Product Name	UKD-ID	Status	Certification Requirements
Brand: Lonza (continued)			
• Polyaldo HGMP KFG	OUV3-FA69855	Pareve	Ⓢ Symbol required.
• Polyaldo HGMP KFG	OUV5-30F697E	Pareve	Certified when bulk shipped in OU approved carriers. Rabbi's signature required.
• Polyaldo PGPR-75 KFG	OUV3-B1C6BBB	Pareve	Ⓢ Symbol required.
• Polyaldo TGMS KFG (3-1-S) <i>BOX-50</i>	OUV3-B868442	Pareve	Ⓢ Symbol required.
• Polyaldo TGMSH KFG	OUV3-B4EB242	Pareve	Ⓢ Symbol required.
• Polyaldo10-1-L KFG	OUV3-DA6914D	Pareve	Ⓢ Symbol required.
• Polyglycerol Euro Grade KFG	OUV3-E338A0E	Pareve	Ⓢ Symbol required.

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