



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 16, 2022

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

Ingredion Incorporated (Gums), 5 Westbrook Corporate Center, Westchester, IL 60154

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

Ingredion-Belcamp (Brass Mill Road), 1311 Brass Mill Road, Belcamp, MD

| Product Name | UKD-ID | Status | Certification Requirements |
|---------------------------|--------------|--------|----------------------------|
| Brand: Action Gum | | | |
| • Action Gum 100 | OUV3-62X2CD4 | Pareve | Ⓢ Symbol required. |
| • Action Gum 10000 EC | OUV3-3CTL15N | Pareve | Ⓢ Symbol required. |
| • Action Gum 1144 EC | OUV3-SDQ1HDL | Pareve | Ⓢ Symbol required. |
| • Action Gum 1144 FF | OUV3-FQ7EMKR | Pareve | Ⓢ Symbol required. |
| • Action Gum 1144 FF-NGMO | OUV3-UBLDLMM | Pareve | Ⓢ Symbol required. |
| • Action Gum 1144 Powder | OUV3-CKSU2BK | Pareve | Ⓢ Symbol required. |
| • Action Gum 2000 Powder | OUV3-GONHSIT | Pareve | Ⓢ Symbol required. |
| • Action Gum 5000 EC | OUV3-WEQPCRH | Pareve | Ⓢ Symbol required. |
| • Action Gum 5000 Powder | OUV3-VADRMHB | Pareve | Ⓢ Symbol required. |
| • Action Gum 6700 Powder | OUV3-R9HV9J1 | Pareve | Ⓢ Symbol required. |

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2023



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Ingredion Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Action Gum (continued) | | | |
| • Action Gum 8200 Powder | OUV3-KHBA0CR | Pareve | Ⓢ Symbol required. |
| • Action Gum 8900 | OUV3-NFKHABG | Pareve | Ⓢ Symbol required. |
| • Action Gum OG 1144 | OUV3-NLOXTX5 | Pareve | Ⓢ Symbol required. |
| • Action Gum OG 6700 | OUV3-4JW0QMY | Pareve | Ⓢ Symbol required. |
| Brand: Add-Here® | | | |
| • ADD-HERE 001-PB | OUV3-698CCF7 | Pareve | Ⓢ Symbol required. |
| • Add-Here® 3200 | OUV3-DFEEE50 | Pareve | Ⓢ Symbol required. |
| • Add-Here® 3200 Non-GMO | OUV3-790F97E | Pareve | Ⓢ Symbol required. |
| • Add-Here® 4300 P | OUV3-81574D6 | Pareve | Ⓢ Symbol required. |
| • Add-Here® CSA | OUV3-B8A9C11 | Pareve | Ⓢ Symbol required. |
| • Add-Here® CSA NGMO Int | OUV3-6346981 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Add-Here® (continued) | | | |
| • Add-Here® CSA-NGMO | OUV3-70D0BC5 | Pareve | Ⓢ Symbol required. |
| • Add-Here® NC | OUV3-1EACC7E | Pareve | Ⓢ Symbol required. |
| • CSA NGMO Int | OUV3-81330FF | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-945F259 | Pareve | Ⓢ Symbol required. |
| Brand: Agaroid | | | |
| • Agaroid® OG 300 | OUV3-3354E89 | Pareve | Ⓢ Symbol required. |
| Brand: Agaroid® | | | |
| • Agaroid® 300 Powder | OUV3-90X3PQH | Pareve | Ⓢ Symbol required. |
| • Agaroid® 586 | OUV3-GKJWIBX | Pareve | Ⓢ Symbol required. |
| • Agaroid® RS-30 Powder | OUV3-OF3XBGA | Pareve | Ⓢ Symbol required. |
| • Agaroid® RS-500 Powder | OUV3-CVNYVZD | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Agaroid® (continued) | | | |
| • Agaroid® RS-507 Powder | OUV3-XPJS3DU | Pareve | Ⓢ Symbol required. |
| • Agaroid® RS-520 Powder | OUV3-JGTORPR | Pareve | Ⓢ Symbol required. |
| Brand: Aragum | | | |
| • Aragum® 3173 | OUV3-58264FB | Pareve | Ⓢ Symbol required. |
| • Vegetable blends | OUV3-0235D0D | Pareve | Ⓢ Symbol required. |
| Brand: Aragum® | | | |
| • Aragum® 1067 T SS Powder | OUV3-GXY7AJ9 | Pareve | Ⓢ Symbol required. |
| • Aragum® 1078 | OUV3-OBBW3UB | Pareve | Ⓢ Symbol required. |
| • Aragum® 2000 Powder | OUV3-YV6TBDH | Pareve | Ⓢ Symbol required. |
| • Aragum® 3173 Powder | OUV3-ZNA43CR | Pareve | Ⓢ Symbol required. |
| • Aragum® 9000 M Powder | OUV3-RG6PQNU | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Aragum® (continued) | | | |
| • Aragum® OG T-2002 | OUV3-ASIMQO7 | Pareve | Ⓢ Symbol required. |
| • Aragum® T-1998 Powder | OUV3-U5CHJRK | Pareve | Ⓢ Symbol required. |
| Brand: Caragum® | | | |
| • 38364900 Caragum 200 | OUV3-I2AQ0U8 | Pareve | Ⓢ Symbol required. |
| • Caragum 300 | OUV3-TV3A8SJ | Pareve | Ⓢ Symbol required. |
| • Caragum® 100 Powder | OUV3-BWYUQH2 | Pareve | Ⓢ Symbol required. |
| • Caragum® 200 FF | OUV3-DZS1TP1 | Pareve | Ⓢ Symbol required. |
| • Caragum® 300-2473 KOP | OUV3-7RWAYIC | Pareve | Ⓢ Symbol required. |
| Brand: Dairyblend | | | |
| • 38514933 Dairyblend Acidified Beverage 120 NGMO | OUV3-J3AHJMU | Pareve | Ⓢ Symbol required. |
| • DAIR CF20 Darifair Stabilizer CF20 | OUV3-EYB9G57 | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Dairyblend (continued) | | | |
| • Dairyblend 101-B | OUV3-0LF0AMZ | Pareve | Ⓢ Symbol required. |
| • Dairyblend 101-B FF | OUV3-G8JJDDD | Pareve | Ⓢ Symbol required. |
| • Dairyblend 2004 | OUV3-V6JGRRE | Pareve | Ⓢ Symbol required. |
| • Dairyblend 2830-ENG | OUV3-SQNDNKW | Pareve | Ⓢ Symbol required. |
| • Dairyblend 360-DD | OUV3-D9OLLKD | Pareve | Ⓢ Symbol required. |
| • Dairyblend 366-THK | OUV3-TBDOR3J | Pareve | Ⓢ Symbol required. |
| • Dairyblend 603-EP | OUV3-PRPJBCD | Pareve | Ⓢ Symbol required. |
| • Dairyblend 603-EP FF | OUV3-EIHBRR2 | Pareve | Ⓢ Symbol required. |
| • Dairyblend Acidified Beverage 120 | OUV3-YKAJTMR | Pareve | Ⓢ Symbol required. |
| • Dairyblend Acidified Beverage 880F | OUV3-PQYVT6T | Pareve | Ⓢ Symbol required. |
| • Dairyblend BTMLK 06 | OUV3-GC9MP1N | Pareve | Ⓢ Symbol required. |
| • Dairyblend CC-340 | OUV3-KJP3TNH | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Dairyblend (continued) | | | |
| • Dairyblend CC-344 | OUV3-ATPFEVP | Pareve | Ⓢ Symbol required. |
| • Dairyblend CD-10 | OUV3-OHF0IAP | Pareve | Ⓢ Symbol required. |
| • Dairyblend CF-853 | OUV3-KLJVPWE | Pareve | Ⓢ Symbol required. |
| • Dairyblend CR 201 CL | OUV3-4F902F5 | Pareve | Ⓢ Symbol required. |
| • Dairyblend Dip-11 | OUV3-HFRZRG0 | Pareve | Ⓢ Symbol required. |
| • Dairyblend DS-80 OG | OUV3-BBABAEE | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC 17508 | OUV3-WBSUCPM | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC 253 Prem | OUV3-FNIGLE4 | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC 29998 Ponyblend | OUV3-ZO8Y6LZ | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC 29998-CP | OUV3-IENK6UV | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC EZ Creamy | OUV3-JFTVVTY | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC EZ NSA | OUV3-17PXUKN | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Dairyblend (continued) | | | |
| • Dairyblend IC Gelato Base | OUV3-WI0XJOR | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC NC | OUV3-JK0Q8MK | Pareve | Ⓢ Symbol required. |
| • Dairyblend IC OG Gelato BASE | OUV3-UYHNELD | Pareve | Ⓢ Symbol required. |
| • Dairyblend ICE 223 | OUV3-HDY42UK | Pareve | Ⓢ Symbol required. |
| • Dairyblend Ice Cream RS | OUV3-GKYO1RO | Pareve | Ⓢ Symbol required. |
| • Dairyblend Ice GL | OUV3-26WMXBE | Pareve | Ⓢ Symbol required. |
| • Dairyblend ICE IPSA | OUV3-OWXSH6O | Pareve | Ⓢ Symbol required. |
| • Dairyblend MB C2 | OUV3-JNWB1UJ | Pareve | Ⓢ Symbol required. |
| • Dairyblend MB2 | OUV3-HQPEFB7 | Pareve | Ⓢ Symbol required. |
| • Dairyblend MP AF | OUV3-LKJIHW9 | Pareve | Ⓢ Symbol required. |
| • Dairyblend Natural IC 10 | OUV3-7098D74 | Pareve | Ⓢ Symbol required. |
| • Dairyblend Natural IC 21 | OUV3-95BED83 | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Dairyblend (continued) | | | |
| • Dairyblend Natural IC CL | OUV3-RUIGF29 | Pareve | Ⓢ Symbol required. |
| • Dairyblend Natural YG AG | OUV3-BJPBJ6J | Pareve | Ⓢ Symbol required. |
| • Dairyblend PD Instant | OUV3-GKITJ89 | Pareve | Ⓢ Symbol required. |
| • Dairyblend Premium | OUV3-VSBA2J0 | Pareve | Ⓢ Symbol required. |
| • Dairyblend RTD-26 | OUV3-CXNR6QZ | Pareve | Ⓢ Symbol required. |
| • Dairyblend SC-713 | OUV3-982ECEE | Pareve | Ⓢ Symbol required. |
| • Dairyblend SC-ASC | OUV3-AYL8BDH | Pareve | Ⓢ Symbol required. |
| • Dairyblend SC-C120 | OUV3-44KK0TI | Pareve | Ⓢ Symbol required. |
| • DAIRYBLEND SC-NAT | OUV3-ISK74PR | Pareve | Ⓢ Symbol required. |
| • Dairyblend SS 731 | OUV3-E7T3HBE | Pareve | Ⓢ Symbol required. |
| • Dairyblend SS Instant | OUV3-5YFDOOZ | Pareve | Ⓢ Symbol required. |
| • Dairyblend WT-526 | OUV3-HCSC63Z | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Dairyblend (continued) | | | |
| • DAIRYBLEND YG 0006 | OUV3-19E1761 | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG 12 NGMO | OUV3-LM6H1IY | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG AG 8 | OUV3-MESNZOH | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG AG NGMO | OUV3-VCWR8NC | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG DP | OUV3-JE44BLC | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG DP-2 | OUV3-SEKYOET | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG FB 3 | OUV3-9KVS0PX | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG FB Natural | OUV3-I03SLSF | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG LP | OUV3-TEBYFUL | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG OG 6 | OUV3-5IIRK6C | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG OGLP | OUV3-OVCU4KI | Pareve | Ⓢ Symbol required. |
| • Dairyblend YG SP | OUV3-TPUBJ0L | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
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| Brand: Dairyblend (continued) | | | |
| • Dairyblend YG-AG | OUV3-U6KOX6G | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-7B103F0 | Pareve | Ⓢ Symbol required. |
| Brand: ENLITEN™ | | | |
| • ENLITEN™ LB | OUV3-40A7B34 | Pareve | Ⓢ Symbol required. |
| • ENLITEN™ LB | OUV3-918E09B | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-73B4D22 | Pareve | Ⓢ Symbol required. |
| Brand: Farmal | | | |
| • FARM XAN 2312TC FARMAL XANTHAN 2312TC | OUV3-TWLQGLC | Pareve | Ⓢ Symbol required. |
| • FARMAL ACACIA 1320 | OUV3-IR69SLA | Pareve | Ⓢ Symbol required. |
| • FARMAL KONJAC 1310 | OUV3-CL8CCW4 | Pareve | Ⓢ Symbol required. |
| • FARMAL LOCUST BEAN 1110 | OUV3-BIC3GOM | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|----------------------------------|--------------|--------|----------------------------|
| Brand: Farmal (continued) | | | |
| • FARMAL PECTIN 1320 | OUV3-TBEK1OT | Pareve | Ⓢ Symbol required. |
| • FARMAL XANTHAN 1320 | OUV3-DANTQWJ | Pareve | Ⓢ Symbol required. |
| Brand: FASTir | | | |
| • FASTir® Xanthan EC | OUV3-2554F4F | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-D5818C2 | Pareve | Ⓢ Symbol required. |
| Brand: Guarcel® | | | |
| • Guarcel® 302 | OUV3-100EMVL | Pareve | Ⓢ Symbol required. |
| • Guarcel® 302 FF | OUV3-BVYEPJY | Pareve | Ⓢ Symbol required. |
| • Guarcel® 910 Powder | OUV3-GQOGN8V | Pareve | Ⓢ Symbol required. |
| Brand: GuarNT® | | | |

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: GuarNT® (continued) | | | |
| • GuarNT® 3500 F Powder | OUV3-GMBX2LA | Pareve | Ⓢ Symbol required. |
| • GuarNT® Bland | OUV3-4LFYKJ2 | Pareve | Ⓢ Symbol required. |
| • GuarNT® Bland 200 HV Powder | OUV3-6D961BA | Pareve | Ⓢ Symbol required. |
| • GuarNT® Bland Powder | OUV3-A889A40 | Pareve | Ⓢ Symbol required. |
| • GuarNT® Flavor Free 4000 | OUV3-LW1SOBY | Pareve | Ⓢ Symbol required. |
| • GuarNT® Flavor Free 4011 | OUV3-RBRLU0G | Pareve | Ⓢ Symbol required. |
| • GuarNT® USA 8/22 | OUV3-ZN5PDRA | Pareve | Ⓢ Symbol required. |
| • GuarNT® USA Flavor Free 5000 | OUV3-RDHA3SM | Pareve | Ⓢ Symbol required. |
| Brand: GUMplete | | | |
| • 75000286 GUMplete STABILIZER CKD-0902 | OUV3-PHAWAQV | Pareve | Ⓢ Symbol required. |
| • GUMplete AGAR | OUV3-BF1FFB7 | Pareve | Ⓢ Symbol required. |

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

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UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
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December 16, 2022

Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: GUMplete (continued) | | | |
| • GUMplete C GUM BG 500 | OUV3-9DYK54S | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM CL-SB | OUV3-WHBQUPD | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM EB-L | OUV3-GCF2QZI | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM EG-CA | OUV3-54C7CD7 | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM EV-1 | OUV3-363A93E | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM EV-2 | OUV3-7D452C6 | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM EV-6 | OUV3-04F8C1C | Pareve | Ⓢ Symbol required. |
| • GUMplete C GUM VS-0921 | OUV3-826BDEE | Pareve | Ⓢ Symbol required. |
| • GUMplete C PRO | OUV3-1C60C00 | Pareve | Ⓢ Symbol required. |
| • GUMplete CELLULOSE GEL 50 | OUV3-F25F651 | Pareve | Ⓢ Symbol required. |
| • GUMplete CELLULOSE GEL 50 BLEND | OUV3-YSJORWT | Pareve | Ⓢ Symbol required. |
| • GUMplete CMC-3000 | OUV3-7E08ED8 | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Gumplete (continued) | | | |
| • GUMplete CMC-9000 | OUV3-UWXGVPP | Pareve | Ⓢ Symbol required. |
| • GUMplete Fenugreek Gum | OUV3-WUAGHJD | Pareve | Ⓢ Symbol required. |
| • GUMplete GUM ARABIC S SD | OUV3-3495744 | Pareve | Ⓢ Symbol required. |
| • GUMplete GUM ARABIC USP #1 SD | OUV3-10F3BC9 | Pareve | Ⓢ Symbol required. |
| • GUMplete MC-0916 | OUV3-7470C64 | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN HM 150 | OUV3-AWTT5DI | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN HM 64 | OUV3-EKOSSTK | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN HM 70 | OUV3-QWS2YSC | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN HM 70/72 | OUV3-NDT2BHJ | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN LM 35/41 | OUV3-0HHNA8A | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN LM 50 | OUV3-VCGFP3M | Pareve | Ⓢ Symbol required. |
| • GUMplete PECTIN LMA 21/24 | OUV3-D717261 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Gumplete (continued) | | | |
| • GUMplete PECTIN SS 62 | OUV3-CBD80BA | Pareve | Ⓢ Symbol required. |
| • GUMplete PGA-M | OUV3-5ZLQIF2 | Pareve | Ⓢ Symbol required. |
| • GUMplete PSYLLIUM HUSK 95% NT | OUV3-KJ9ZR9Q | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER HYDRO-FI CCX-1028 | OUV3-E38A0F9 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER AC-0112 | OUV3-FC6E25D | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER AG-0312 | OUV3-8C0E91D | Pareve | Ⓢ Symbol required. |
| • GUMplete Stabilizer AKX-1101 | OUV3-I7HFCFS | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER AM-0504 | OUV3-P5MDPYI | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER AXC-1031 | OUV3-1248754 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER CC-0801 | OUV3-GXVH4BC | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER CDS-102 | OUV3-5AYLTLY | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER CDS-104N | OUV3-2G1OHYV | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-----------------------------------|--------------|--------|----------------------------|
| Brand: GUMLETE (continued) | | | |
| • GUMLETE STABILIZER CKLX-MS | OUV3-YNNTUK1 | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CKX-FR | OUV3-06BFXIJ | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CP-1210 | OUV3-69CC00E | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CT-0930 | OUV3-C008909 | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CX-0230 | OUV3-BFD64AC | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CX-BD-1R | OUV3-F999E08 | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CXC-1224 | OUV3-4CE41ED | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CXP-BD-1 | OUV3-3345477 | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER CXT-0214 | OUV3-UQAO9TT | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER DS-101 | OUV3-ZV0UV13 | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER EG-1003 | OUV3-7C6B78F | Pareve | Ⓢ Symbol required. |
| • GUMLETE STABILIZER GC PRO | OUV3-DJJ69R6 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Gumplete (continued) | | | |
| • GUMplete STABILIZER GPG-M | OUV3-CFA2FD2 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER HC-1114 | OUV3-NDAKBPG | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER HCS-1 | OUV3-211464E | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER HYDRO-FI XCT-0123 | OUV3-161D8D1 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER JB-900 | OUV3-TXOL9ER | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER KFG-0223 | OUV3-E5PO9WV | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER KSP-1R | OUV3-RSX56IH | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER KT-MS | OUV3-0B58E2D | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER KX-BS | OUV3-B7B7033 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER KX-ED | OUV3-82AE8F5 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER LACX-0720 | OUV3-JZVXAVE | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER LGAX-0430 | OUV3-MWVHVGU | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Gumplete (continued) | | | |
| • GUMplete STABILIZER LGC-0613 | OUV3-C95BEB1 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER LXAA-0722 | OUV3-LTZIQSM | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER PF-3 | OUV3-6622511 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER ST-101 | OUV3-TKW1ZJZ | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER STC-101 | OUV3-7734B8B | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER TC-0411 | OUV3-9CEC2B8 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER VPB-1 | OUV3-6147FAC | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER WF-1 | OUV3-1CAGRSX | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XA-0823 | OUV3-5A1B16D | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XA-1205 | OUV3-8B00D8C | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XAC-LH | OUV3-136AB2F | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XAG-0325 | OUV3-ODCZDMR | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Gumplete (continued) | | | |
| • GUMplete STABILIZER XC-0409 | OUV3-26C744B | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XC-0430 | OUV3-1CCC192 | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XC-0508 | OUV3-5FA207D | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XC-0707 | OUV3-J4KS4PN | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XCT-0922 | OUV3-RV5N27H | Pareve | Ⓢ Symbol required. |
| • GUMplete STABILIZER XPG-0828 | OUV3-9B60F5E | Pareve | Ⓢ Symbol required. |
| • GUMplete TRAGACANTH | OUV3-RVJFENH | Pareve | Ⓢ Symbol required. |
| • GUMplete™ GUM ARABIC S SD | OUV3-ED48B70 | Pareve | Ⓢ Symbol required. |
| • GUMplete™ PECTIN LM 35/41 | OUV3-8968416 | Pareve | Ⓢ Symbol required. |
| • GUMplete™ Stabilizer DS-101 | OUV3-DF850A7 | Pareve | Ⓢ Symbol required. |
| • GUMplete™ STABILIZER ST-101 | OUV3-5ADBC72 | Pareve | Ⓢ Symbol required. |
| • STABILIZER HYDRO-FI TC-1123 | OUV3-65FE48F | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Gumplete (continued) | | | |
| • Vegetable Blend | OUV3-ZQVUUYE | Pareve | Ⓢ Symbol required. |
| Brand: GUMPLETE™ | | | |
| • GUMPLETE™ AGAR DENTAL | OUV3-5CF96BC | Pareve | Ⓢ Symbol required. |
| • GUMPLETE™ AGAR-W | OUV3-35811A5 | Pareve | Ⓢ Symbol required. |
| • GUMPLETE™ STABILIZER AX-0423 | OUV3-89EF4D1 | Pareve | Ⓢ Symbol required. |
| • GUMPLETE™ STABILIZER GXC-0906 | OUV3-7EA7C58 | Pareve | Ⓢ Symbol required. |
| • GUMPLETE™ Stabilizer ST-0308 | OUV3-UJM7GNK | Pareve | Ⓢ Symbol required. |
| • LBG GB-1 GUMPLETE™ Basics LBG 1 | OUV3-RTWUKO4 | Pareve | Ⓢ Symbol required. |
| Brand: Nutriloid® | | | |
| • 75000376 Arabic Spray Dry | OUV3-EICLPG8 | Pareve | Ⓢ Symbol required. |
| • 75000378 Nutriloid Gum Arabic FT | OUV3-XFAUKBF | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Nutriloid® (continued) | | | |
| • Nutriloid® Arabic Spray Dry | OUV3-BW5BXPW | Pareve | Ⓢ Symbol required. |
| • Nutriloid® Bamboo Fiber | OUV3-RITMLEM | Pareve | Ⓢ Symbol required. |
| • Nutriloid® Gum Arabic FT | OUV3-GI79QCL | Pareve | Ⓢ Symbol required. |
| • Nutriloid® Gum Arabic FT-90 | OUV3-CE5S1U9 | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-CC39979 | Pareve | Ⓢ Symbol required. |
| Brand: OptiCellulose | | | |
| • 75000394 OptiCellulose Syrup 2600 | OUV3-OTTV9SQ | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-772DC66 | Pareve | Ⓢ Symbol required. |
| Brand: Precisa | | | |
| • PRECISA BAKE 120 i | OUV3-LPYR05M | Pareve | Ⓢ Symbol required. |
| • PRECISA BAKE 130 | OUV3-BMHQEGE | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|-----------------------------------|--------------|--------|----------------------------|
| Brand: Precisa (continued) | | | |
| • PRECISA CLING 25 i | OUV3-12ACD41 | Pareve | Ⓢ Symbol required. |
| • PRECISA CLING 30 | OUV3-1309139 | Pareve | Ⓢ Symbol required. |
| • PRECISA CREAM 1100 | OUV3-D0JAPPQ | Pareve | Ⓢ Symbol required. |
| • PRECISA CREAM 1300 i | OUV3-N1LOXIX | Pareve | Ⓢ Symbol required. |
| • PRECISA CREAM 1400 i | OUV3-OGLWATL | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DCM 5298 | OUV3-3D539A9 | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DCM 5298 | OUV3-7E488C3 | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-8E62FB5 | Pareve | Ⓢ Symbol required. |
| Brand: PRECISA® | | | |
| • PRECISA® BAKE 140 | OUV3-QKRKCEE | Pareve | Ⓢ Symbol required. |
| • PRECISA® BAKE 150 | OUV3-0CGOAHM | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: PRECISA® (continued) | | | |
| • PRECISA® Carra Gel MCH 5461 | OUV3-LQHEAZV | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Gel MCH 5775 | OUV3-IMHFS8A | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Gel MCH 6009 | OUV3-GNVYQAB | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Gel PFP 5750 | OUV3-HCUWPS6 | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Gel PGU 5609 | OUV3-O46LYTK | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DCM 5365 | OUV3-2CEPVUU | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DCM 5488 | OUV3-SYON7UO | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DCM 5661 | OUV3-DFCOTQA | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DDE 5509 | OUV3-MQYZPHT | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DGU 5698 | OUV3-T3K4F4D | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact DIC 5350 | OUV3-EX5Q2AQ | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact PGU 5785 | OUV3-XDKRWCM | Pareve | Ⓢ Symbol required. |

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2023



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
 FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 16, 2022

Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: PRECISA® (continued) | | | |
| • PRECISA® Carra Lact PPD 5424 | OUV3-UTAKGTK | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Lact PPD 5726 | OUV3-Y4BFTTK | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra Sol PFP 5337 | OUV3-CFS0LLG | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra? Gel PGU 6011 | OUV3-LJJKMNT | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra? Gel PGU 6073 | OUV3-WNGLYVL | Pareve | Ⓢ Symbol required. |
| • PRECISA® Carra? Gel PWJ 6233 | OUV3-C9MRS6P | Pareve | Ⓢ Symbol required. |
| • PRECISA® CLING 1410 i | OUV3-YWYVDNK | Pareve | Ⓢ Symbol required. |
| • PRECISA® CLING 60 i | OUV3-HCQBY4R | Pareve | Ⓢ Symbol required. |
| • PRECISA® GEL 10 | OUV3-J1U7IAA | Pareve | Ⓢ Symbol required. |
| • PRECISA® GEL 20 | OUV3-NLX5MAE | Pareve | Ⓢ Symbol required. |
| • PRECISA® GEL 21 | OUV3-QBYAM5H | Pareve | Ⓢ Symbol required. |

Brand: Pre-Hydrated®

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--|--------------|--------|----------------------------|
| Brand: Pre-Hydrated® (continued) | | | |
| • 75000914CA Pre-Hydrated® TICorganic® Arabic SD | OUV3-LPEJHVD | Pareve | Ⓢ Symbol required. |
| • Pre-hydrated TICorganic Inulin Agave | OUV3-2WHC9KW | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Action Gum 10000 EC | OUV3-BFQYBBB | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Action Gum 1144 EC | OUV3-J59UXUM | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Action Gum 1144 Powder | OUV3-LYAIOT4 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Aragum® OG T-2002 | OUV3-JDOHB9G | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Dairyblend Whipped Foam Powder | OUV3-M7ZJVJL | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Guar Gum 8/24 Powder | OUV3-C68F10F | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® GuarNT® Bland Powder | OUV3-QWEVMCJ | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® GuarNT® Flavor Free 4000 | OUV3-DXFMOJT | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® GuarNT® USA 8/22 | OUV3-ICE0WU8 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Gum Arabic FT | OUV3-MDRXX75 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Pre-Hydrated® (continued) | | | |
| • Pre-Hydrated® Gum Arabic FT-1 | OUV3-F7GRBUI | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Gum Arabic FT-40556 | OUV3-AYQYIQT | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Gum Arabic SF Powder | OUV3-CYKGMJJ | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Gum Arabic Spray Dry Powder | OUV3-0XM6AXT | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Pectin 1400 | OUV3-D5B0481 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Pectin HM Rapid Powder | OUV3-ZTSMNOR | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Saladizer® 250 Powder | OUV3-UQQNKTR | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Stabilizer OG XC-8444 | OUV3-DN9KRW8 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Stabilizer WT-2 | OUV3-9DVFJV0 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Stabilizer XC-8444 | OUV3-UB7FEUL | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Stabilizer XC-8444 Powder | OUV3-FMMBJVD | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Stabilizer XC-8444-N | OUV3-LSWY3OP | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Pre-Hydrated® (continued) | | | |
| • Pre-Hydrated® TICA-algin® 400 F | OUV3-KG6HCWT | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® TICA-algin® 602 | OUV3-UW2TBTS | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® TICA-algin® HG 400 | OUV3-CWTFWAR | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® | OUV3-A18DF28 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® 1155 Non-GMO | OUV3-CIINIT0 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® 210 "S" Powder | OUV3-E0VK7XS | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® 434 | OUV3-Y8H2M8N | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® 5415 Powder | OUV3-61CF50E | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® 5415-1 | OUV3-9M4QJWA | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® Acidified Beverage 10 | OUV3-XQYYR1H | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaloid® PRO 181 AG | OUV3-25055DD | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticalose® 400 SF Powder | OUV3-ZL7E5SB | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Pre-Hydrated® (continued) | | | |
| • Pre-Hydrated® Ticalose® CMC 15 Powder | OUV3-2QBOMOG | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticalose® CMC 2500 Powder | OUV3-89DXHHT | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticalose® CMC 6000 Powder | OUV3-HCFCXMG | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Rapid NGMO | OUV3-THF8HQE | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Rapid Powder | OUV3-3N4VMVK | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Rapid-3 INT | OUV3-GP2WJVE | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Rapid-3 NGMO | OUV3-3SHOWQV | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Rapid-3 Powder | OUV3-U0QRVEB | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Smooth Powder | OUV3-6VF64NI | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Xanthan | OUV3-TJGOUTW | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Xanthan EC | OUV3-UKZFUYO | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Xanthan EC NGMO | OUV3-IWURIM0 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--|--------------|--------|----------------------------|
| Brand: Pre-Hydrated® (continued) | | | |
| • Pre-Hydrated® Ticaxan® Xanthan EC NGMOPV | OUV3-0672280 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Ticaxan® Xanthan Powder | OUV3-2OJJNRZ | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® TICorganic® Arabic SD | OUV3-GVRI4UV | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® TICorganic® Guar 3500 F | OUV3-5XC5YS3 | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® TICorganic® Gum Arabic SF | OUV3-ETMKVSQ | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® TICorganic® Saladizer® | OUV3-JHQ8PVI | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Xanthan Rapid 3-EC | OUV3-BYIUFHF | Pareve | Ⓢ Symbol required. |
| Brand: Pre-Hydrated® Ticaloid® | | | |
| • Pre-Hydrated® Ticaloid® Acacia MAX | OUV3-RMSVXDH | Pareve | Ⓢ Symbol required. |
| Brand: Saladizer® | | | |
| • Saladizer® #110 Powder | OUV3-6F1FAE3 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Saladizer® (continued) | | | |
| • Saladizer® 210 Powder | OUV3-6QAE1E3 | Pareve | Ⓢ Symbol required. |
| • Saladizer® 228 M Powder | OUV3-H0EPZJ6 | Pareve | Ⓢ Symbol required. |
| • Saladizer® 232 | OUV3-THWV7B | Pareve | Ⓢ Symbol required. |
| • Saladizer® 243 M Powder | OUV3-SBAT2E2 | Pareve | Ⓢ Symbol required. |
| • Saladizer® 250 Powder | OUV3-6EROE2A | Pareve | Ⓢ Symbol required. |
| • Saladizer® 420 | OUV3-LRCAHTN | Pareve | Ⓢ Symbol required. |
| • Saladizer® 702 Powder | OUV3-WDVGRE8 | Pareve | Ⓢ Symbol required. |
| • Saladizer® Dairy Stabilizer | OUV3-RJYIOGX | Pareve | Ⓢ Symbol required. |
| • Saladizer® FB-50 | OUV3-DIITCS | Pareve | Ⓢ Symbol required. |
| • Saladizer® MAX | OUV3-6843FE7 | Pareve | Ⓢ Symbol required. |
| • Saladizer® Max Complete | OUV3-MUZU722 | Pareve | Ⓢ Symbol required. |
| • Saladizer® Max Complete FS EC | OUV3-YPOMYPT | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Saladizer® (continued) | | | |
| • Saladizer® Mayo Cold Set | OUV3-4QCIEDX | Pareve | Ⓢ Symbol required. |
| Brand: SIMPLISTICA | | | |
| • SIMPLISTICA BK 6202 | OUV3-9CC1893 | Pareve | Ⓢ Symbol required. |
| • Simplistica YG 3206 | OUV3-2AF5AD9 | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-DDBDD53 | Pareve | Ⓢ Symbol required. |
| Brand: Supercol™ | | | |
| • Supercol™ U2 Guar Gum | OUV3-E7BF13D | Pareve | Ⓢ Symbol required. |
| Brand: TIC Gums | | | |
| • DAIR CF20 Darifair Stabilizer CF20 | OUV3-IZCEDXI | Pareve | Ⓢ Symbol required. |
| • EXB 7107-MBN-122019-A | OUV3-BD84A7D | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Tic Gums (continued) | | | |
| • EXB 7107-MBN-122019-B | OUV3-60D9987 | Pareve | Ⓢ Symbol required. |
| Brand: TIC Pretested® | | | |
| • STAB ICE-200 FF TIC Pretested® Stabilizer ICE-200 Flavor Free | OUV3-KBUZUHY | Pareve | Ⓢ Symbol required. |
| • TIC Pretested Locust Bean Gum POR/A2 | OUV3-8FEE24B | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Acacia #2 Crude Sorts | OUV3-NTLRDL4 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Agar Agar 100 Powder | OUV3-14B14BD | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Agar Agar 100-44 HG | OUV3-8NGVZGB | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Agar Agar 222 | OUV3-2L8XIMA | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Agar RS-111 | OUV3-6BYD0I | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Apple Pectin 1500 | OUV3-PI2CA0W | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Apple Pectin AM 800 | OUV3-I9XPIIF | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--|--------------|--------|----------------------------|
| Brand: TIC Pretested® (continued) | | | |
| • TIC Pretested® Apple Pectin HM Slow Set | OUV3-557ARM7 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Apple Pectin HM Slow Set 3 | OUV3-TMIGPSQ | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Apple Pectin LMA | OUV3-7HG7RIE | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Blend 2005 Powder | OUV3-CXYMDNA | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Bright Gum Arabic Powder | OUV3-NCCKWAC | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Burtonite 44 C Powder | OUV3-GW5VEVT | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Burtonite W 88 C Powder | OUV3-3RY8P9I | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Freedom Gum X-PGA/HV Powder | OUV3-4BKWB55 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Freedom Gum X-PGA/LV Powder | OUV3-M6PTVBZ | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar 8/22-HW Powder | OUV3-J0BWNM4 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar Food RG | OUV3-GFOBBJ6 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar Gum 1308-Low | OUV3-HAEFHGX | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: TIC Pretested® (continued) | | | |
| • TIC Pretested® Guar Gum 578 Powder | OUV3-KI9KHMG | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar Gum 8/24 Powder | OUV3-MFXMRVT | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar Gum 8/26 Powder | OUV3-70A30E5 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar Gum K1-D | OUV3-XDG7GMG | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Guar Industrial | OUV3-N1MPI6D | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic BEV-101 GR | OUV3-561AFED | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic BEV-202 Powder | OUV3-FFB69ES | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic Bev-505 | OUV3-WD2UAXE | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic Clean Amber Sorts | OUV3-RPLBUMY | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic FT Powder | OUV3-ABD4EBA | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic FT Spray Dry Powder | OUV3-6KNJUBX | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic FT-1 NS | OUV3-SLLIBN5 | Pareve | Ⓢ Symbol required. |

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2023



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 16, 2022

Ingredient Incorporated (Gums) (continued)

This is to certify that the following product(s) prepared by this company at the facility(ies) 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: TIC Pretested® (continued) | | | |
| • TIC Pretested® Gum Arabic FT-1 Powder | OUV3-OAK7WYL | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic Industrial | OUV3-KQXXG3H | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic Prehydrated KC Powder | OUV3-FI7H9DV | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic SF Powder | OUV3-33UYMXT | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic Spray Dry EP Powder | OUV3-JPYRCYP | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Arabic Spray Dry Powder | OUV3-52C56CC | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Guar 650 C-PM | OUV3-3B0BC57 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Guar 8/22 | OUV3-IYSJRQK | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Guar 8/22 A Powder | OUV3-D8BSTUW | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Guar 8/22 Powder | OUV3-0H0FTDR | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Guar 8/24 Powder | OUV3-70JP6KI | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Gum Guar TICOLV Powder | OUV3-YRMXCIO | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|---|
| Brand: TIC Pretested® (continued) | | | |
| • TIC Pretested® Gum Guar TICOLV-11 Powder | OUV3-VF5NEEM | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Inulin LV 110 Powder | OUV3-ASON5X5 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Locust Bean Gum POR/A Powder | OUV3-MEDUKY1 | Pareve | Ⓢ Symbol required. Certified for Passover and year-round use. |
| • TIC Pretested® Locust Bean Gum POR/A2 Powder | OUV3-C9E666F | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Locust Bean Por/A-578 | OUV3-L1TENRY | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Powdered Guar Gum | OUV3-F2MPUJL | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Ridgefield Smoothie Cup Stabilizer 2 | OUV3-ABGRGWX | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Rolling Pin Donut Glaze | OUV3-61ZWV3A | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® RP Yeast Raised Donut Stab | OUV3-9D49NFN | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer 10749-PC Powder | OUV3-MCKGMGH | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer 424 Powder | OUV3-E538B8D | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: TIC Pretested® (continued) | | | |
| • TIC Pretested® Stabilizer Bev 550 | OUV3-HL5JFML | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer Coating X Powder | OUV3-QVO85UW | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer Culinary Foam | OUV3-IDLVSLX | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer DF-866 Powder | OUV3-HOELLB1 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer Dust Free-862-M | OUV3-M0R8QWE | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer Frosting CF | OUV3-LRTI5KB | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer ICE 300 | OUV3-NRYMYUB | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer ICE-200 Powder | OUV3-4TN37UU | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer Icing | OUV3-ONEF09A | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer OG XC-424 HD | OUV3-OUCICUV | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer Salt Blend NBE-A3032B | OUV3-0TGDLRP | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer SOFT SERVE Powder | OUV3-EI2XXBC | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: TIC Pretested® (continued) | | | |
| • TIC Pretested® Stabilizer Water Ice Powder | OUV3-YHQNBOR | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer XC-424 | OUV3-I9KB77R | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Stabilizer XC-424 FF | OUV3-AMGAX5Y | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Tara Gum 100 | OUV3-CAE7A75 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Tomato Paste Extender Powder | OUV3-GLBDKEB | Pareve | Ⓢ Symbol required. |
| • TICA-algin® PGA LV Powder | OUV3-BMGTTWC | Pareve | Ⓢ Symbol required. |
| Brand: TIC Pretested® Pectin | | | |
| • CMCM TIC Pretested® Tara Gum 100 | OUV3-46K4IDJ | Pareve | Ⓢ Symbol required. |
| • Pre-Hydrated® Pectin 1694 Powder | OUV3-FPEL4TY | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin 1400 | OUV3-O4KUODG | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin 500 | OUV3-K5C5NGS | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: TIC Pretested® Pectin (continued) | | | |
| • TIC Pretested® Pectin AM 800 | OUV3-XEQ8YSJ | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin HM Rapid Set | OUV3-MTXDW22 | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin HM Slow Set | OUV3-8TNIJCH | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin HM Slow Set 3 | OUV3-R15DI5Z | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin HM Slow Set NGMO | OUV3-GAX5KQR | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin JELS Powder | OUV3-RJCO8LA | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin LM 32 Powder | OUV3-CWED4TO | Pareve | Ⓢ Symbol required. |
| • TIC Pretested® Pectin LM 35 Powder | OUV3-LX1P4MK | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-TMI8TGQ | Pareve | Ⓢ Symbol required. |
| Brand: TICA-algin | | | |
| • TICA-algin® SQ 900 Powder | OUV3-06E17A3 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---------------------------------------|--------------|--------|----------------------------|
| Brand: TICA-algin (continued) | | | |
| • Vegetable Blends | OUV3-5A320CF | Pareve | Ⓢ Symbol required. |
| Brand: TICA-algin® | | | |
| • ALGIN HG-411 K TICA-algin® HG 411 K | OUV3-PVFNS2R | Pareve | Ⓢ Symbol required. |
| • GUMLETE™ ALGIN SA | OUV3-0C22D22 | Pareve | Ⓢ Symbol required. |
| • TICA-algin® 400 Powder | OUV3-54E32DE | Pareve | Ⓢ Symbol required. |
| • TICA-algin® 488-T27361 | OUV3-8DO1102 | Pareve | Ⓢ Symbol required. |
| • TICA-algin® 900 Powder | OUV3-DVW63O2 | Pareve | Ⓢ Symbol required. |
| • TICA-algin® Cam | OUV3-92GCI8L | Pareve | Ⓢ Symbol required. |
| • TICA-algin® HG 400 Powder | OUV3-BFWLAEV | Pareve | Ⓢ Symbol required. |
| • TICA-algin® HG 600 F Powder | OUV3-X1UTZAL | Pareve | Ⓢ Symbol required. |
| • TICA-algin® PGA LV Powder | OUV3-VXFDW8I | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---------------------------------------|---------------|--------|----------------------------|
| Brand: TICA-algin® (continued) | | | |
| • TICA-algin® RS-O | OUV3-DGIQXOB | Pareve | Ⓢ Symbol required. |
| • TICA-algin® SQ 951 | OUV3-D05KYYL | Pareve | Ⓢ Symbol required. |
| Brand: TICACEL | | | |
| • 7000070 Ticagel GD-639 | OUV3-FWSDLCP | Pareve | Ⓢ Symbol required. |
| • TICACEL 100 Cellulose Powder | OUV3-RTDVPB8 | Pareve | Ⓢ Symbol required. |
| • Ticacel 200 | OUV3-NSXLMOT | Pareve | Ⓢ Symbol required. |
| Brand: TICACEL® | | | |
| • TICA MC VX TICACEL® MC VX | OUV3-YNOBKS B | Pareve | Ⓢ Symbol required. |
| • Ticacel HV Powder | OUV3-AEF2E93 | Pareve | Ⓢ Symbol required. |
| • TICACEL® 300 MCC | OUV3-3D4CC75 | Pareve | Ⓢ Symbol required. |
| • TICACEL® 824-MP Powder | OUV3-Z72GWOL | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: TICACEL® (continued) | | | |
| • TICACEL® HV Powder | OUV3-UC3RTFJ | Pareve | Ⓢ Symbol required. |
| • TICACEL® LV Powder | OUV3-DREPJ8T | Pareve | Ⓢ Symbol required. |
| • TICACEL® MC E4M | OUV3-HVDSFCN | Pareve | Ⓢ Symbol required. |
| • TICACEL® MC E50 | OUV3-KRPCJSV | Pareve | Ⓢ Symbol required. |
| • TICACEL® MC F4M | OUV3-Q8BUHHY | Pareve | Ⓢ Symbol required. |
| • TICACEL® MC K4M | OUV3-KFO2JAJ | Pareve | Ⓢ Symbol required. |
| • TICACEL® MCC FG-100 Powder | OUV3-U6JZINI | Pareve | Ⓢ Symbol required. |
| Brand: Ticacia® | | | |
| • Ticacia® 200-SBI | OUV3-EOLGSL0 | Pareve | Ⓢ Symbol required. |
| Brand: TicaDRINK | | | |
| • Vegetable Blends | OUV3-FA0F4FA | Pareve | Ⓢ Symbol required. |

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Ingredion Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|----------------------------------|--------------|--------|----------------------------|
| Brand: Ticafilm® | | | |
| • Ticafilm® 25 | OUV3-DAD15DD | Pareve | Ⓢ Symbol required. |
| • Ticafilm® FM | OUV3-9C6BB35 | Pareve | Ⓢ Symbol required. |
| • Ticafilm® T 19 | OUV3-A7B1D08 | Pareve | Ⓢ Symbol required. |
| • Ticafilm® T 52 | OUV3-0E6224E | Pareve | Ⓢ Symbol required. |
| Brand: Ticagel® | | | |
| • 75000630CA Ticagel® Bind 55-AK | OUV3-HIGYROS | Pareve | Ⓢ Symbol required. |
| • 75000634 Ticagel CA 0957 | OUV3-MAS7ART | Pareve | Ⓢ Symbol required. |
| • 75000865 Ticagel Konjac OG HV | OUV3-FNQEKF | Pareve | Ⓢ Symbol required. |
| • 75000935CA Ticagel® CA 0979 M | OUV3-TB5NH01 | Pareve | Ⓢ Symbol required. |
| • 75000948CA GD-616 | OUV3-9V19KDG | Pareve | Ⓢ Symbol required. |
| • TGEL PPS-2 Ticagel® PPS-2 | OUV3-WIUP0QJ | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Ticagel® (continued) | | | |
| • Ticagel Bind-KX | OUV3-350C4C7 | Pareve | Ⓢ Symbol required. |
| • Ticagel Gellan HS | OUV3-RLCMOSC | Pareve | Ⓢ Symbol required. |
| • Ticagel® 109-VC Powder | OUV3-IBN02NT | Pareve | Ⓢ Symbol required. |
| • Ticagel® 1103 | OUV3-UHQTYFE | Pareve | Ⓢ Symbol required. |
| • Ticagel® 121-AGF Powder | OUV3-PITXO7R | Pareve | Ⓢ Symbol required. |
| • Ticagel® 157-M | OUV3-LUGRP8Q | Pareve | Ⓢ Symbol required. |
| • Ticagel® 212-GA | OUV3-W7EOGTV | Pareve | Ⓢ Symbol required. |
| • Ticagel® 230 | OUV3-3D43477 | Pareve | Ⓢ Symbol required. |
| • Ticagel® 425-KC Powder | OUV3-3RVGENH | Pareve | Ⓢ Symbol required. |
| • Ticagel® 427 | OUV3-8433779 | Pareve | Ⓢ Symbol required. |
| • Ticagel® 500 FL | OUV3-66AF804 | Pareve | Ⓢ Symbol required. |
| • Ticagel® 550-PT Powder | OUV3-AGHP2YS | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Ticagel® (continued) | | | |
| • Ticagel® 610 | OUV3-JZF3GFT | Pareve | Ⓢ Symbol required. |
| • Ticagel® 795 Powder | OUV3-NDHZ2OF | Pareve | Ⓢ Symbol required. |
| • Ticagel® 822 | OUV3-RXTGCPY | Pareve | Ⓢ Symbol required. |
| • Ticagel® 93-GLT | OUV3-O4JDEFI | Pareve | Ⓢ Symbol required. |
| • Ticagel® Bakery Filling 20 CL | OUV3-46BFC1B | Pareve | Ⓢ Symbol required. |
| • Ticagel® Bind 1000 | OUV3-6VBUCHF | Pareve | Ⓢ Symbol required. |
| • Ticagel® Bind KX 35 | OUV3-KQYHURT | Pareve | Ⓢ Symbol required. |
| • Ticagel® Bind-KX | OUV3-XOSO33V | Pareve | Ⓢ Symbol required. |
| • Ticagel® Bind-KX EC | OUV3-HUSZT6J | Pareve | Ⓢ Symbol required. |
| • Ticagel® CSW-100 Powder | OUV3-7GWYWCE | Pareve | Ⓢ Symbol required. |
| • Ticagel® G-07 | OUV3-1GSEHDS | Pareve | Ⓢ Symbol required. |
| • Ticagel® GC-564 S | OUV3-ANIEFWP | Pareve | Ⓢ Symbol required. |

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Ingredion Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: Ticagel® (continued) | | | |
| • Ticagel® GC-581 B | OUV3-V3NXQJ8 | Pareve | Ⓢ Symbol required. |
| • Ticagel® GD-617 | OUV3-B818B73 | Pareve | Ⓢ Symbol required. |
| • Ticagel® Gellan DP NGMO | OUV3-7UHEIII | Pareve | Ⓢ Symbol required. |
| • Ticagel® Gellan DPB | OUV3-GKCKTPO | Pareve | Ⓢ Symbol required. |
| • Ticagel® Gellan HS | OUV3-6QGRPOI | Pareve | Ⓢ Symbol required. |
| • Ticagel® Gellan HS NGMO | OUV3-HZ7MJAL | Pareve | Ⓢ Symbol required. |
| • Ticagel® Gellan L-6 | OUV3-5JE8R3E | Pareve | Ⓢ Symbol required. |
| • Ticagel® GL-RS | OUV3-TJZUX5Q | Pareve | Ⓢ Symbol required. |
| • Ticagel® Konjac High Viscosity | OUV3-43GXRM8 | Pareve | Ⓢ Symbol required. |
| • Ticagel® ME Stabilizer 101 | OUV3-C0GTDGJ | Pareve | Ⓢ Symbol required. |
| • Ticagel® Natural GC-581 B | OUV3-WQUPTKO | Pareve | Ⓢ Symbol required. |
| • Ticagel® Natural GC-581 B CN | OUV3-XQ7BEF6 | Pareve | Ⓢ Symbol required. |

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2023

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ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
 FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 16, 2022

Ingredient Incorporated (Gums) (continued)

This is to certify that the following product(s) prepared by this company at the facility(ies) 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: Ticagel® (continued) | | | |
| • Ticagel® Natural GC-592 SF | OUV3-83B3ED3 | Pareve | Ⓢ Symbol required. |
| • Ticagel® PF-80 Powder | OUV3-UOTHAXT | Pareve | Ⓢ Symbol required. |
| • Ticagel® PF-91 | OUV3-P1T1Y6R | Pareve | Ⓢ Symbol required. |
| • Ticagel® PG-730 FF | OUV3-J1M3MQO | Pareve | Ⓢ Symbol required. |
| • Ticagel® PG-730 Powder | OUV3-S8RGR3S | Pareve | Ⓢ Symbol required. |
| • Ticagel® PP-601 | OUV3-WBK3OIU | Pareve | Ⓢ Symbol required. |
| • Ticagel® SPA-3 | OUV3-YMRN0VO | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-ABEEE0D | Pareve | Ⓢ Symbol required. |
| Brand: Ticaloid® | | | |
| • 70000609 Ticaloid 0827 | OUV3-VVY4WVB | Pareve | Ⓢ Symbol required. |
| • 70000928 Ticaloid IC 728 | OUV3-KVOTRGY | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • 70000929 Ticaloid Icing 0330 | OUV3-J3M2JVH | Pareve | Ⓢ Symbol required. |
| • 7000969 Ticaloid GD 762 | OUV3-EWN4F3W | Pareve | Ⓢ Symbol required. |
| • 75000772CA Ticaloid® PRO 122 RD | OUV3-KMRJ6A8 | Pareve | Ⓢ Symbol required. |
| • COLL 710 H Ticaloid 710 H Powder | OUV3-G07IU6L | Pareve | Ⓢ Symbol required. |
| • TICA 725 Ticaloid® 725 | OUV3-PPSWGQW | Pareve | Ⓢ Symbol required. |
| • TICA ACAC MAX Ticaloid® Acacia MAX | OUV3-1ZRDCW4 | Pareve | Ⓢ Symbol required. |
| • TICA APSG-87330 TICALOID APSG-87330 | OUV3-JJ2YENU | Pareve | Ⓢ Symbol required. |
| • TICA PGGS-87330 TICALOID PGGS-87330 | OUV3-AQRUZKM | Pareve | Ⓢ Symbol required. |
| • Ticaloid 100 POWDER | OUV3-HCSVGIU | Pareve | Ⓢ Symbol required. |
| • Ticaloid 422 M Powder | OUV3-BQYRR41 | Pareve | Ⓢ Symbol required. |
| • Ticaloid CF-29876 | OUV3-ITXA2FJ | Pareve | Ⓢ Symbol required. |
| • Ticaloid Pro HC 988 | OUV3-E4802E1 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid Saucier | OUV3-965BA9D | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1000 | OUV3-NHLQUWW | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1004 "T" Powder | OUV3-30CF414 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 102 S-Mayo Powder | OUV3-S8QGS14 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1022 Powder | OUV3-NYE7ADG | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1023 "T" Powder | OUV3-I7D4WXJ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1023 T OG | OUV3-2D09F80 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1023-GXC | OUV3-CI4KBCN | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 102-B No Fat Powder | OUV3-XDPR1NL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 102-S2 No Fat Powder | OUV3-E0E5AKP | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1039 Powder | OUV3-GGDMHMC | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1070 Powder | OUV3-900JFJW | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® 1155 | OUV3-DXJGJUS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1155 FF | OUV3-6DYVVCD | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 1499 GX Powder | OUV3-WV5UESN | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 210 S NGMO | OUV3-CTUGURN | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 210 S Powder | OUV3-392F465 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 244 | OUV3-VUAFBNX | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 29561 | OUV3-4ECCED3 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 310 S Stabilizer | OUV3-WKM1FMD | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 321 S | OUV3-629F636 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 32345-SP | OUV3-9XD4EWS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 35262 | OUV3-IWLQGIV | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 423 Powder | OUV3-FRQRAHB | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® 451 "T" Powder | OUV3-GEGQUK8 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 451 T EC | OUV3-JOHKZVS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 451 T Non-GMO | OUV3-D2EGI3J | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 472 Powder | OUV3-B12214A | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 472 Powder | OUV3-B7792C5 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 500 Powder | OUV3-JSJ1VWA | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 508 M Powder | OUV3-ADWCYS9 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 515 M-T Powder | OUV3-DSFVMA | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 524 | OUV3-ERMPK3X | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 590 "T" Powder | OUV3-DE8MIQQ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 600 Powder | OUV3-9UWTFD8 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 614 Powder | OUV3-FHLQRFO | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® 620 | OUV3-4RAXX3M | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 666-1 Powder | OUV3-VYAETBS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 700 Powder | OUV3-GLNGBYD | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 710 H Powder | OUV3-JHKTCV4 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 710 H-96 Powder | OUV3-B3HXRPO | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 710 H-DX | OUV3-CVMLHDC | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 750 | OUV3-1C6B6C1 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 760 MB Powder | OUV3-TPYNFCS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 760 MB-1 | OUV3-9D72754 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 770 MB | OUV3-HPCAWJU | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 780 MB | OUV3-KAVSCPN | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 780 MB OG | OUV3-5OSJNOP | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® 780 Stabilizer | OUV3-DOIEPQK | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 787 Powder | OUV3-ESHSBOY | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 791 | OUV3-LMXLYCA | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 8212-NM Powder | OUV3-3WWEA3O | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 825 Powder | OUV3-XSBJROZ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 842 Powder | OUV3-WUS5I5R | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 881 M NGMO | OUV3-KFIXJHC | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 881 M Powder | OUV3-DC3EEEB | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 911 Powder | OUV3-F445A42 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 922 | OUV3-WA7PYKM | Pareve | Ⓢ Symbol required. |
| • Ticaloid® 923 | OUV3-4E10AAE | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Acacia MAX | OUV3-LOIUXG | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® BD-1200 | OUV3-8IP8ZLM | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-1800 | OUV3-DODWHD1 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2200 | OUV3-7Z4BPGA | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2500 | OUV3-B6IY7KC | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2801 | OUV3-J7KLPHB | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2828 | OUV3-VXEET9B | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2850 | OUV3-OUQUAB9 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2861 | OUV3-BFVJIW0 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2872 | OUV3-DKXMAYR | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2894 | OUV3-5B6W8NW | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BD-2898 | OUV3-0CF606F | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BEV-3000 | OUV3-ZSMIBXM | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® BIND I-96 NGMO | OUV3-BKZS9RY | Pareve | Ⓢ Symbol required. |
| • Ticaloid® BIND I-96 Powder | OUV3-4339534 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Cajun-2002 Pre-Hydrated® | OUV3-PKUZR1W | Pareve | Ⓢ Symbol required. |
| • Ticaloid® CLOUD-GUM Powder | OUV3-7SS6I61 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® CM-2000 | OUV3-HJIJAYS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® CM-2058 | OUV3-1FWWJCW | Pareve | Ⓢ Symbol required. |
| • Ticaloid® CM-2069 | OUV3-B9DNXAL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® CM-2300 | OUV3-G7THAQG | Pareve | Ⓢ Symbol required. |
| • Ticaloid® CS 101 | OUV3-KU3GRTK | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DG | OUV3-9J3XXNL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DG 671 | OUV3-17D1E20 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-1000 | OUV3-CXXNKGD | Pareve | Ⓢ Symbol required. |

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Ingredion Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® DR-1400 | OUV3-WS7C7OG | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-1437 | OUV3-L6ETFLO | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-1700 | OUV3-KHLHASF | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-2000 | OUV3-U4ISHDA | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-2400 | OUV3-YB5C8BF | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-2422 | OUV3-LPGNKUL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-2700 | OUV3-5DBF7T0 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DR-2701 | OUV3-NUJZCKW | Pareve | Ⓢ Symbol required. |
| • Ticaloid® DRB/4 Powder | OUV3-JFUYTAL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® FB-1500 | OUV3-BXIPANL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® FB-2900-CN | OUV3-EHG2NTH | Pareve | Ⓢ Symbol required. |
| • Ticaloid® FB-2911 | OUV3-FV6GPJF | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® FB-2933 | OUV3-870402D | Pareve | Ⓢ Symbol required. |
| • Ticaloid® FOLD N FLEX | OUV3-EEWVWOO | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Frosting 320 | OUV3-8904864 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Frosting Max | OUV3-B1FB773 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® GF 313 | OUV3-4269D80 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® GF 377 | OUV3-911A8CB | Pareve | Ⓢ Symbol required. |
| • Ticaloid® GR 5420 | OUV3-3E7D446 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® GR 5420 NGMO | OUV3-VCAQJH8 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® GR-8700 | OUV3-PFYMCAD | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Heat N Smooth | OUV3-BA63WXS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® IB Gum | OUV3-GK96DSO | Pareve | Ⓢ Symbol required. |
| • Ticaloid® ICE 103 | OUV3-EF69A03 | Pareve | Ⓢ Symbol required. |

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2023

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LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 16, 2022

Ingredient Incorporated (Gums) (continued)

This is to certify that the following product(s) prepared by this company at the facility(ies) 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: Ticaloid® (continued) | | | |
| • Ticaloid® ICE 65 | OUV3-FE7ZSKA | Pareve | Ⓢ Symbol required. |
| • Ticaloid® ICE 70 | OUV3-RYLYQHM | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Icing Max | OUV3-13A9EC6 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Icing RTU | OUV3-2FHJGRO | Pareve | Ⓢ Symbol required. |
| • Ticaloid® KRISPEE Powder | OUV3-GLPSM6B | Pareve | Ⓢ Symbol required. |
| • Ticaloid® LC SR3 | OUV3-R2AMYNX | Pareve | Ⓢ Symbol required. |
| • Ticaloid® LC-SR1 | OUV3-N2D5UG6 | Pareve | Ⓢ Symbol required. |
| • TICALOID® LITE HF | OUV3-MJAIPXO | Pareve | Ⓢ Symbol required. |
| • Ticaloid® LITE Powder | OUV3-0F73791 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® MIRACLE Powder | OUV3-MDPFA9I | Pareve | Ⓢ Symbol required. |
| • Ticaloid® MP Powder | OUV3-N754K6D | Pareve | Ⓢ Symbol required. |
| • Ticaloid® OG 1155 | OUV3-8C17CC2 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® OG 2255-V | OUV3-4IQLAP4 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® OG 424-RF | OUV3-D5AASIC | Pareve | Ⓢ Symbol required. |
| • Ticaloid® OG 762 | OUV3-ZIKNU8S | Pareve | Ⓢ Symbol required. |
| • Ticaloid® OG GF-345 | OUV3-V28RN1V | Pareve | Ⓢ Symbol required. |
| • Ticaloid® OG JB | OUV3-ZGH8UUU | Pareve | Ⓢ Symbol required. |
| • Ticaloid® OG Ultrasmooth CL | OUV3-JORZD2X | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pep-555 | OUV3-VLTQ5KL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PERFECT TOPPING Powder | OUV3-RZLOV5T | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO 148 OG | OUV3-05EBD23 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO 181 AG | OUV3-193E23F | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO 181 AG CN | OUV3-2LELDOS | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO 192 AGD | OUV3-82KSJ5J | Pareve | Ⓢ Symbol required. |

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Ingredion Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|--|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® PRO 192 AGD High Viscosity | OUV3-ZTRQNX9 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro 410 | OUV3-SNNB0FH | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro 432 | OUV3-XMNSREL | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO 432 CN | OUV3-7BRNAEB | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro 571 SET | OUV3-0YY57SZ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro 571 SET CN | OUV3-OXZQ3OR | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro 910 CN | OUV3-CX8XHWY | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro 932 CN | OUV3-CWUOLBV | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO D159 OG | OUV3-JKQPP0K | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro HC 910 | OUV3-XFCUAVY | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Pro HC 932 | OUV3-9NXVICZ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® PRO OG 181 | OUV3-8SMXT0B | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® PRO OG D192 | OUV3-RRSEBOI | Pareve | Ⓢ Symbol required. |
| • Ticaloid® S-1300 | OUV3-4DO6NDQ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® SD-1000 | OUV3-AC9O4UI | Pareve | Ⓢ Symbol required. |
| • Ticaloid® SD-2000 | OUV3-XLVDAJE | Pareve | Ⓢ Symbol required. |
| • Ticaloid® SM-1900 | OUV3-QCSVWY | Pareve | Ⓢ Symbol required. |
| • Ticaloid® SUPERSMOOTH Powder | OUV3-ZINVTTE | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Syrup OC1 | OUV3-UXLLJPX | Pareve | Ⓢ Symbol required. |
| • Ticaloid® Tortilla | OUV3-ROQCL7H | Pareve | Ⓢ Symbol required. |
| • Ticaloid® ULTRASMOOTH | OUV3-243C54F | Pareve | Ⓢ Symbol required. |
| • Ticaloid® ULTRASMOOTH CL | OUV3-E6BB43D | Pareve | Ⓢ Symbol required. |
| • Ticaloid® ULTRASMOOTH EC | OUV3-A0C0D1A | Pareve | Ⓢ Symbol required. |
| • Ticaloid® UltrasMOOTH NGMO | OUV3-FCACC6F | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---------------------------------------|--------------|--------|----------------------------|
| Brand: Ticaloid® (continued) | | | |
| • Ticaloid® Ultrasmooth NGMO Original | OUV3-2DD7ABF | Pareve | Ⓢ Symbol required. |
| • Ticaloid® VISCOMIX Powder | OUV3-4EAAC49 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® XC-6515-1 Powder | OUV3-NKAS4NK | Pareve | Ⓢ Symbol required. |
| • Ticaloid® YG-1000 | OUV3-OPJ3AVR | Pareve | Ⓢ Symbol required. |
| • Ticaloid® YG-1020 | OUV3-FH0B5Q1 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® YG-1031 | OUV3-RGENGN6 | Pareve | Ⓢ Symbol required. |
| • Ticaloid® YG-1080 | OUV3-FVXWHEC | Pareve | Ⓢ Symbol required. |
| • Ticaloid® YG-1091 | OUV3-WFTV1TQ | Pareve | Ⓢ Symbol required. |
| • Ticaloid® YG-1100 | OUV3-0WVJSP5 | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-9D6F982 | Pareve | Ⓢ Symbol required. |

Brand: Ticalose®

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Ticalose® (continued) | | | |
| • CMC 2500 S Ticalose® CMC 2500 Standard Powder | OUV3-HXXJE2U | Pareve | Ⓢ Symbol required. |
| • Ticalose® 15 F-1430 | OUV3-PASZOPF | Pareve | Ⓢ Symbol required. |
| • Ticalose® 200 F Powder | OUV3-ENVI3UX | Pareve | Ⓢ Symbol required. |
| • Ticalose® 400 SF Powder | OUV3-UDQFCW4 | Pareve | Ⓢ Symbol required. |
| • Ticalose® 4500 Fine Powder | OUV3-FWDRZRY | Pareve | Ⓢ Symbol required. |
| • Ticalose® 4500 Standard Powder | OUV3-ZTM8MPV | Pareve | Ⓢ Symbol required. |
| • Ticalose® 6000 Coarse Powder | OUV3-TXDLPAM | Pareve | Ⓢ Symbol required. |
| • Ticalose® 6000 Standard Powder | OUV3-FKNCX08 | Pareve | Ⓢ Symbol required. |
| • Ticalose® 602 Standard Powder | OUV3-RXPUIQ6 | Pareve | Ⓢ Symbol required. |
| • Ticalose® 700 P | OUV3-ID25IPL | Pareve | Ⓢ Symbol required. |
| • Ticalose® 903 Powder | OUV3-DGJVM4R | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 15 Coarse Powder | OUV3-IQ9E2U8 | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|---------------------------------------|--------------|--------|----------------------------|
| Brand: Ticalose® (continued) | | | |
| • Ticalose® CMC 15 Fine NGMO | OUV3-45CB716 | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 15 Fine Powder | OUV3-S8XEHAM | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 15000 Powder | OUV3-D62C2B7 | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 2500 AS Powder | OUV3-4DGO5HU | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 2500 C Powder | OUV3-VPFTSEQ | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 2500 Fine Powder | OUV3-60F2CBD | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 2500 Fine Powder 1328 | OUV3-FM8YFIV | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 2700 F NGMO | OUV3-4C98F67 | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 3200 F | OUV3-CUF0TJZ | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 350 VC | OUV3-K7D1SVG | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 6000 F Powder | OUV3-ECARBMC | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|-------------------------------------|--------------|--------|----------------------------|
| Brand: Ticalose® (continued) | | | |
| • Ticalose® CMC 6000 Fine Powder | OUV3-2847B64 | Pareve | Ⓢ Symbol required. |
| • Ticalose® CMC 6000 Fine Powder | OUV3-F79875F | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-994F408 | Pareve | Ⓢ Symbol required. |
| Brand: Ticamulsion | | | |
| • TICAMULSION® 3020 | OUV3-31932E5 | Pareve | Ⓢ Symbol required. |
| • TICAMULSION® A-2010 Powder | OUV3-65897BA | Pareve | Ⓢ Symbol required. |
| • Vegetable Blends | OUV3-20164DE | Pareve | Ⓢ Symbol required. |
| Brand: Ticapan | | | |
| • Vegetable Blends | OUV3-0BDEADB | Pareve | Ⓢ Symbol required. |
| Brand: TicaPAN® | | | |

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: TicaPAN® (continued) | | | |
| • TICAPAN 002-PB | OUV3-D5AQINM | Pareve | Ⓢ Symbol required. |
| • TicaPAN 311 CN | OUV3-1B2IAVN | Pareve | Ⓢ Symbol required. |
| • TicaPAN Quick Crunch CN | OUV3-ZUSAH2H | Pareve | Ⓢ Symbol required. |
| • TicaPAN Quick Crunch CWCN | OUV3-OCZL5BJ | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 311 | OUV3-060BEB2 | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 311 CN | OUV3-NJM1SDA | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 311 CW | OUV3-TLREWLN | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 311 CWCN | OUV3-U9RWXBR | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 311 NGMO Int | OUV3-VWMQBPG | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 311-NGMO | OUV3-FDPUHZQ | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 322 CN | OUV3-YZC5QC6 | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 322 NGMO Int | OUV3-MEMXHPG | Pareve | Ⓢ Symbol required. |

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Ingredient Incorporated (Gums) (continued)

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| Product Name | UKD-ID | Status | Certification Requirements |
|------------------------------------|--------------|--------|----------------------------|
| Brand: TicaPAN® (continued) | | | |
| • TicaPAN® 501 NGMO | OUV3-T901HV4 | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 520 | OUV3-BMGHULD | Pareve | Ⓢ Symbol required. |
| • TicaPAN® 618 CN | OUV3-6YHQJAJ | Pareve | Ⓢ Symbol required. |
| • TicaPAN® NC-08 CN | OUV3-FI7RWCR | Pareve | Ⓢ Symbol required. |
| • TicaPAN® Quick Crunch | OUV3-W9CWGLM | Pareve | Ⓢ Symbol required. |
| • TicaPAN® Quick Crunch CW | OUV3-EG2PVLM | Pareve | Ⓢ Symbol required. |
| • TicaPAN® Quick Crunch NGMO Int | OUV3-CTMSHNF | Pareve | Ⓢ Symbol required. |
| • TicaPAN® Quick Crunch Non-GMO | OUV3-SKPFPA6 | Pareve | Ⓢ Symbol required. |
| Brand: Ticaxan® | | | |
| • Ticaxan® CM-Xanthan Powder | OUV3-VQ5KTG0 | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan 200 EC | OUV3-THIC0HE | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Ticaxan® (continued) | | | |
| • Ticaxan® Xanthan 200 EC B50 | OUV3-LFHLDHG | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan 200 EC NGMO | OUV3-AFHDHBH | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan 200 EC NGMOPV | OUV3-IYBHQZF | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan 200 Powder | OUV3-XSY8TOY | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan 200-NGMO | OUV3-8K0IUQR | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan 531 | OUV3-OUPMGJC | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan Clear Powder | OUV3-80PRWGO | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan EC | OUV3-NEIIR5M | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan EC NGMO | OUV3-E3AC62B | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan NGMO | OUV3-IBCPUSC | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan Powder | OUV3-WPDWUPH | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan Salt Tolerant Powder | OUV3-RBL9EJG | Pareve | Ⓢ Symbol required. |

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| Product Name | UKD-ID | Status | Certification Requirements |
|---|--------------|--------|----------------------------|
| Brand: Ticaxan® (continued) | | | |
| • Ticaxan® Xanthan Smooth Powder | OUV3-0278949 | Pareve | Ⓢ Symbol required. |
| • Ticaxan® Xanthan VI | OUV3-FPWOJVB | Pareve | Ⓢ Symbol required. |
| • Xanthan | OUV3-418C29C | Pareve | Ⓢ Symbol required. |
| Brand: TICOrganic® | | | |
| • 75000862 TICOrganic Guar Gum 8/22 | OUV3-1UWHRWE | Pareve | Ⓢ Symbol required. |
| • TICOrganic® Agaroid®300 | OUV3-1E1ED71 | Pareve | Ⓢ Symbol required. |
| • TICOrganic® Agar 150-C | OUV3-A4D6135 | Pareve | Ⓢ Symbol required. |
| • TICOrganic® Agar 600-B | OUV3-CB4BDFF | Pareve | Ⓢ Symbol required. |
| • TICOrganic® Agaroid® 315 | OUV3-12A25E4 | Pareve | Ⓢ Symbol required. |
| • TICOrganic® Agaroid® 315 Organic Agar | OUV3-F35C575 | Pareve | Ⓢ Symbol required. |
| • TICOrganic® Arabic Spray Dry Powder | OUV3-EG5G96M | Pareve | Ⓢ Symbol required. |

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

This certification is valid through 12/31/2023

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ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

בס"ד

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
 FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

December 16, 2022

Ingredient Incorporated (Gums) (continued)

This is to certify that the following product(s) prepared by this company at the facility(ies) 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: TICorganic® (continued) | | | |
| • TICorganic® Aragum® SDF | OUV3-5FDRNHJ | Pareve | Ⓢ Symbol required. |
| • TICorganic® Caragum® 200 | OUV3-KYEVXOK | Pareve | Ⓢ Symbol required. |
| • TICorganic® Dairyblend COT D | OUV3-HK6OYFC | Pareve | Ⓢ Symbol required. |
| • TICorganic® Dairyblend IC | OUV3-UY0T7M4 | Pareve | Ⓢ Symbol required. |
| • TICorganic® Dairyblend IC 2 | OUV3-OGVPYZK | Pareve | Ⓢ Symbol required. |
| • TICorganic® Dairyblend Natural IC CL | OUV3-UC3OCVA | Pareve | Ⓢ Symbol required. |
| • TICorganic® Dairyblend YG Smooth | OUV3-SJTNIJE | Pareve | Ⓢ Symbol required. |
| • TICorganic® Guar Gum 3500 F Powder | Ouw3-913935B | Pareve | Ⓢ Symbol required. Certified for Passover and year-round use. |
| • TICorganic® Gum Arabic SF | OUV3-9DBC97D | Pareve | Ⓢ Symbol required. |
| • TICorganic® Inulin Agave | OUV3-82XQYJR | Pareve | Ⓢ Symbol required. |
| • TICorganic® Locust Bean Gum Powder | OUV3-JKCEDAA | Pareve | Ⓢ Symbol required. |

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Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

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Ingredient Incorporated (Gums) (continued)

This is to certify that the following product(s) prepared by this company at the facility(ies) 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: TICorganic® (continued) | | | |
| • TICorganic® OG SALA 100 Saladizer® 100 | OUV3-WJFBS2 | Pareve | Ⓢ Symbol required. |
| • TICorganic® OG SALA 320 Saladizer® 320 | OUV3-A9B22C6 | Pareve | Ⓢ Symbol required. |
| • TICorganic® OG STAB ICE-200 Stabilizer ICE-200 | OUV3-869AE1C | Pareve | Ⓢ Symbol required. |
| • TICorganic® Ultrasmooth CL | OUV3-G0QGABC | Pareve | Ⓢ Symbol required. |
| • TICorganic® YG Cup Set | OUV3-75185D6 | Pareve | Ⓢ Symbol required. |
| Brand: Valentine Blend | | | |
| • Custom Blend | OUV3-E13FDDE | Pareve | Ⓢ Symbol required. |

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