



# Orthodox Union

## Letter of Certification

Union of Orthodox Jewish Congregations of America  
איחוד קהילות האורתודוקסים באמריקה

בס"ד

April 08, 2014

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

**Purac, Arkesedijk 46, Gorinchem, - 4206AC NETHERLANDS**

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
<b>Brand: 10203 PURAC 80 bulk</b>			
• L(+)-Lactic Acid Edible 80	Ouw3-3DE90CD	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
<b>Brand: 10301 PURAC FCC 50</b>			
• L(+)-Lactic Acid FCC Special 50	Ouw3-0083737	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
• L(+)-Lactic Acid FCC Special 50	Ouw4-34B9B1E	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			

**Brand: 10304 PURAC FCC 80**

**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*

**This certification is valid through 03/31/2015**

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 10304 PURAC FCC 80 (continued)</b>			
• L(+)-Lactic Acid FCC Special 80	OUW3-8811ADD	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
• L(+)-Lactic Acid FCC Special 80	OUW4-8B14F25	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			

**Brand: 10306 PURAC FCC 88**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 10306 PURAC FCC 88 (continued)</b>			
• L(+)-Lactic Acid FCC Special 88	OUW3-0836E18	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
• L(+)-Lactic Acid FCC Special 88	OUW4-77B9CA1	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			

**Brand: 10403 PURAC HS 50**

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 10403 PURAC HS 50 (continued)</b>			
• L(+)-Lactic Acid Heatstable 50	OUW3-6D99FBE	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
• L(+)-Lactic Acid Heatstable 50	OUW4-CCB55E1	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			

**Brand: 10406 PURAC HS 88**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 10406 PURAC HS 88 (continued)</b>			
• L(+)-Lactic Acid Heatstable 88	OUW3-D3ECE98	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
• L(+)-Lactic Acid Heatstable 88	OUW4-B65ACE9	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			

**Brand: 10411 PURAC HS 93**

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 10411 PURAC HS 93 (continued)</b>			
• L(+)-Lactic Acid Heatstable 93 <i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>	OUW3-587B2F4	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
• L(+)-Lactic Acid Heatstable 93 <i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>	OUW4-7781BDF	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

**Brand: 10412 PURAC SANILAC 80**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 10412 PURAC SANILAC 80 (continued)</b>			
• L(+)-Lactic Acid 80	Ouw3-D62998F	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
• L(+)-Lactic Acid 80	Ouw4-D18675A	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<i>Product is Kosher for Passover when made in Gorinchem, NETHERLANDS.</i>			
<b>Brand: 12201 PURACAL PP/FCC</b>			
• Calcium L-Lactate 5-hydrate powder FCC	Ouv3-320A1A1	Pareve	Ⓢ Symbol required.
• Calcium L-Lactate 5-hydrate powder FCC	Ouv4-53FC21A	Pareve	Certified when bulk shipped in OU approved carriers.

**Brand: 12204 PURACAL PP/USP**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 12204 PURACAL PP/USP (continued)</b>			
• Calcium L-Lactate 5-hydrate powder	OUV3-F7FAA2E	Pareve	Ⓢ Symbol required.
• Calcium L-Lactate 5-hydrate powder	OUV4-AE8C387	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 12309 CALFEED</b>			
• Calcium L-Lactate feed grade	OUV3-D6A8FFF	Pareve	Ⓢ Symbol required.
<b>Brand: 12313 PURACAL DC</b>			
• Calcium L-Lactate direct compressible	OUV3-85DD445	Pareve	Ⓢ Symbol required.
<b>Brand: 12315 PURACAL PP Food</b>			
• Calcium L-Lactate 5-hydrate powder	OUV3-BF6B9E2	Pareve	Ⓢ Symbol required.
<b>Brand: 12501 Calcium Lactate/ Gluconate</b>			
• Calcium Lactate / Calcium Gluconate	OUV3-E5671EE	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 12502 Calcium Lactate/ Gluconate</b>			
• Calcium Lactate / Calcium Gluconate	OUV3-1276243	Pareve	Ⓢ Symbol required.
<b>Brand: 12541 PURACAL Xpro</b>			
• Calcium Lactate / Calcium Gluconate	OUV3-C072073	Pareve	Ⓢ Symbol required.
<b>Brand: 1254101 PURACAL Xpress</b>			
• Calcium Lactate / Calcium Gluconate	OUV3-6021996	Pareve	Ⓢ Symbol required.
<b>Brand: 13002 PURASAL S</b>			
• Sodium-(L)-Lactate (60%), Water (40%)	OUV3-BA7D7CF	Pareve	Ⓢ Symbol required.
• Sodium-(L)-Lactate (60%), Water (40%)	OUV4-14F18E8	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13003 PURASAL S/HQ 60</b>			

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 13003 PURASAL S/HQ 60 (continued)</b>			
• Sodium-L-Lactate HQ 60	OUV3-1191F6E	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate HQ 60	OUV4-01B99D6	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13102 PURASAL HiPure P</b>			
• Potassium-L-Lactate (60%), Water (40%)	OUV3-7D33F89	Pareve	Ⓢ Symbol required.
• Potassium-L-Lactate (60%), Water (40%)	OUV4-8834AE8	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13113 PURASAL HiPure P Plus</b>			
• Potassium-L-Lactate (78%), Water (22%)	OUV3-CA4D02E	Pareve	Ⓢ Symbol required.
• Potassium-L-Lactate (78%), Water (22%)	OUV4-EFE6E3A	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 13502 PURASAL S/PF 50 (5.0-7.0)</b>			
• Sodium-L-Lactate 50, Pharma Pyrogenfree	OUV3-AE35EAE	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 50, Pharma Pyrogenfree	OUV4-163C389	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13504 PURASAL S/PF 50 (6.5-7.5)</b>			
• Sodium-L-Lactate 50, Pharma Pyrogenfree	OUV3-2403355	Pareve	Ⓢ Symbol required. Signature Required
• Sodium-L-Lactate 50, Pharma Pyrogenfree	OUV4-EB143CF	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13601 PURASAL S/PF 60 (7.4)</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-96E427A	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-B3CE810	Pareve	Certified when bulk shipped in OU approved carriers.

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 13602 PURASAL S/PF 60</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-6FA1376	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-8593350	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13603 PURASAL S/PF 60 (5.3)</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-6C54823	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-6D0ED77	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13604 PURASAL S/PF 60 (5.3/BJP)</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-4ABF485	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-74C1226	Pareve	Certified when bulk shipped in OU approved carriers.

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### Purac (continued)

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 13605 PURASAL S/PF 60 (6.6)</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-BADD5F3	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-046BEBF	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13607 PURASAL S/PF 60 (6.6-7)</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-CFEB6B1	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-9A53A4C	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 13608 PURASAL S/PF 60 (6.6 Neat)</b>			
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV3-CBF29C0	Pareve	Ⓢ Symbol required.
• Sodium-L-Lactate 60, Pharma Pyrogenfree	OUV4-26BA712	Pareve	Certified when bulk shipped in OU approved carriers.

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 14001 PURAC BF P/41</b>			
• Buffered-L(+)-Lactic Acid P/41	OUV3-572EB10	Pareve	Ⓢ Symbol required.
<b>Brand: 14004 PURAC BF S/30</b>			
• Buffered-L(+)-Lactic Acid S/30	OUV3-534AFEA	Pareve	Ⓢ Symbol required.
• Buffered-L(+)-Lactic Acid S/30	OUV4-511DA48	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 14008 PURAC SPRAY 80</b>			
• Spray solution based on Lactic Acid	OUV3-D4ABC43	Pareve	Ⓢ Symbol required.
<b>Brand: 14101 PURASAL Lite S/6</b>			
• Water (40%), Sodium-(L)-Lactate (30%), Potassium-(L)-Lactate (30%)	OUV3-5ED73F6	Pareve	Ⓢ Symbol required.
<b>Brand: 14301 PURAC CL 21/80</b>			
• L(+)-Lactic Acid Based Mixture	OUV3-23C23E7	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 14350 PuraQ Arome NA4</b>			
• Natural Flavourings	OUV3-A7E236A	Pareve	Ⓢ Symbol required.
<b>Brand: 14402 Opti.Form SD 4</b>			
• Sodium L-Lactate (56%), Water (40%), Sodium Diacetate (4%)	OUV3-8CFE97A	Pareve	Ⓢ Symbol required.
• Sodium L-Lactate (56%), Water (40%), Sodium Diacetate (4%)	OUV4-0B73853	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 14403 Opti.Form PD 4</b>			
• Potassium L-Lactate (56%), Water (40%), Sodium Diacetate (4%)	OUV3-50B8D12	Pareve	Ⓢ Symbol required.
• Potassium L-Lactate (56%), Water (40%), Sodium Diacetate (4%)	OUV4-9B56AD9	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 14408 Opti.Form PA 4</b>			
• Potassium L-Lactate (56%), Water (40%), Sodium Acetate (4%)	OUV3-E99E2E6	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 14413 Opti.Form PD 4/F</b>			
• Potassium Lactate and Sodium Diacetate Flavoured	OUV3-CD0354B	Pareve	Ⓢ Symbol required.
<b>Brand: 14419 Opti.Form PD Plus</b>			
• Potassium L-Lactate (72,8%), Water (22%), Sodium Diacetate (5,2%)	OUV3-9B42605	Pareve	Ⓢ Symbol required.
• Potassium L-Lactate (72,8%), Water (22%), Sodium Diacetate (5,2%)	OUV4-E5E9AB9	Pareve	Certified when bulk shipped in OU approved carriers.
<b>Brand: 14430 Opti.Form PPA Plus</b>			
• Potassium L-Lactate (72,8%), Water (22%), Potassium Acetate (5,2%)	OUV3-D037C90	Pareve	Ⓢ Symbol required.
<b>Brand: 14432 Opti.Form SA</b>			
• Sodium L-Lactate, Sodium Acetate	OUV3-2AA64FD	Pareve	Ⓢ Symbol required.
<b>Brand: 14436 Opti Form Ace P13</b>			

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 14436 Opti Form Ace P13 (continued)</b> • Sodium L-lactate, sodium diacetate, water	OUV3-4AE1E9F	Pareve	Ⓢ Symbol required.
<b>Brand: 14439 Opti.Form PA Plus</b> • Potassium-L-Lactate, water, sodium acetate	OUV3-7BB723C	Pareve	Ⓢ Symbol required.
<b>Brand: 14441 Opti Form Ace P40</b> • Potassium acetate, potassium L-lactate, water	OUV3-090C276	Pareve	Ⓢ Symbol required.
<b>Brand: 14442 Opti. Form Ace S15</b> • Sodium L-lactate, sodium diacetate, water	OUV3-B91B756	Pareve	Ⓢ Symbol required.
<b>Brand: 14507 PuraQ Verdad NV4</b> • Natural Flavouring, Vinegar	OUV3-44D0F2E	Pareve	Ⓢ Symbol required.
<b>Brand: 14508 PURAC</b> • Verdad N19	OUV3-419CDB2	Pareve	Ⓢ Symbol required.

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 14509 Verdad F32</b> • Fermented Sugar, Vinegar	OUV3-DBEFA2B	Pareve	Ⓢ Symbol required.
<b>Brand: 14514 PuraQ Verdad RV23</b> • Natural Flavouring, Vinegar	OUV3-638B6C1	Pareve	Ⓢ Symbol required.
<b>Brand: 14519 Verdad N4</b> • Natural Flavouring, Vinegar	OUV3-0A197D2	Pareve	Ⓢ Symbol required.
<b>Brand: 14580 Verdad N45</b> • Natural Flavoring, Vinegar	OUV3-FD7B176	Pareve	Ⓢ Symbol required.
<b>Brand: 14581 Verdad F7</b> • Cultured Sugar	OUV3-09AF749	Pareve	Ⓢ Symbol required.
<b>Brand: 15120 PURAC POWDER 55</b> • L(+)-Lactic Acid Powder 55%, Calcium L-Lactate	OUV3-30D9339	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*

**This certification is valid through 03/31/2015**

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# Orthodox Union

## Letter of Certification

Union of Orthodox Jewish Congregations of America  
איחוד קהילות האורתודוקסים באמריקה

בס"ד

April 08, 2014

### Purac (continued)

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 15130 PURAC POWDER 60</b> • L(+)-Lactic Acid Powder 60%, Calcium L-Lactate	OUV3-0BC26BD	Pareve	Ⓢ Symbol required.
<b>Brand: 15140 PURAC POWDER 60/NS</b> • L(+)-Lactic Acid Powder	OUV3-EF96193	Pareve	Ⓢ Symbol required.
<b>Brand: 15160 PURAC POWDER 55/NS</b> • L(+)-Lactic Acid Powder	OUV3-166AA78	Pareve	Ⓢ Symbol required.
<b>Brand: 15172 PURAC POWDER MA</b> • Sodium Hydrogen Malate 46%, Malic acid 54%	OUV3-6B9EAA5	Pareve	Ⓢ Symbol required.
<b>Brand: 72350 PURACAL Qstable 80</b> • Stabilized Calcium Carbonate <i>Lot-specific letter required.</i>	OUV3-312742C	Pareve	Ⓢ Symbol required.
<b>Brand: 72353 PURACAL Qstable 140</b>			

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### Purac (continued)

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 72353 PURACAL Qstable 140 (continued)</b>			
• Stabilized Calcium Carbonate <i>Lot-specific letter required.</i>	OUV3-1F64F39	Pareve	Ⓢ Symbol required.
<b>Brand: 72371 PURACAL ACT 200</b>			
• Formulation of Calcium Lactate and Calcium Chloride <i>Lot-specific letter required. Last date of OU certification: 10/29/2010</i>	OUV3-4A61BC0	Pareve	Ⓢ Symbol required.
<b>Brand: 72521 PURACAL Xperform</b>			
• Calcium Lactate Gluconate <i>Lot-specific letter required</i>	OUV3-496429A	Pareve	Ⓢ Symbol required.
<b>Brand: 72524 PURACAL Xperform, dry</b>			
• Calcium Lactate Gluconate, Dry <i>Lot-specific letter required</i>	OUV3-5045D58	Pareve	Ⓢ Symbol required.
<b>Brand: 74338 PuraQ Xtend AX66</b>			

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 74338 PuraQ Xtend AX66 (continued)</b>			
• Potassium Cinnamate <i>Lot-specific letter required</i>	OUV3-D4F85B6	Pareve	Ⓢ Symbol required.
<b>Brand: 74550 Verdad Powder F80</b>			
• Verdad Powder F80 <i>Needs lot-specific letter for any lots made from April 2013, onward, as evidenced by the year/month code at the beginning of the lot number: 1304..., 1305..., etc.</i>	OUV3-8CA3934	Pareve	Ⓢ Symbol required.
<b>Brand: 74553 Verdad Powder F80</b>			
• Cultured Sugar <i>Lot-specific letter required</i>	OUV3-E224983	Pareve	Ⓢ Symbol required.
<b>Brand: 75003 PURAMEX MG</b>			
• Magnesium Lactate	OUV3-48677C7	Pareve	Ⓢ Symbol required.
• Magnesium Lactate Dihydrate	OUV3-A02A910	Pareve	Ⓢ Symbol required.

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April 08, 2014

**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 75005 PURAMEX ZN</b> • Zinc Lactate	OUV3-730ACAE	Pareve	Ⓢ Symbol required.
<b>Brand: 75008 PURAMEX ZN Fine</b> • Zinc Lactate	OUV3-D9A72B1	Pareve	Ⓢ Symbol required.
<b>Brand: 75403 GLUCONAL K-G</b> • Potassium Gluconate <i>Lot-specific letter required</i>	OUV3-32762D4	Pareve	Ⓢ Symbol required.
<b>Brand: 75421 GLUCONAL MG-P</b> • Magnesium Gluconate <i>Lot-specific letter required</i>	OUV3-D9859C5	Pareve	Ⓢ Symbol required.
<b>Brand: 75431 GLUCONAL ZN-P</b> • Zinc Gluconate <i>Lot-specific letter required</i>	OUV3-C9BDF7A	Pareve	Ⓢ Symbol required.

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: 7X178 Prototype VPY-4.2</b>			
• Prototype VPY-4.2 <i>Lot-specific Letter required</i>	OUV3-33E952B	Pareve	Ⓢ Symbol required.
<b>Brand: Purac</b>			
• Calcium Lactate <i>Special Production for the 2014 Passover Season.</i>	O UW3-A257B17	Pareve/Passover	Ⓢ-P Symbol required.
• Prototype VPY1	O UV3-B6E6871	Pareve	Ⓢ Symbol required.
<b>Brand: Purac CIQ#: 3301603015</b>			
• 72425 Gluconal CAA-P-IN	O UV3-BD5E2AD	Pareve	Ⓢ Symbol required.
• 72447 Gluconal CAM-P-IN	O UV3-5D124FB	Pareve	Ⓢ Symbol required.
• 72448 Gluconal CAM-P-OR	O UV3-A5B3C20	Pareve	Ⓢ Symbol required.
• 72449 Gluconal CAM-P-IN-EP	O UV3-BC42A27	Pareve	Ⓢ Symbol required.

**Brand: PURAC Powder MA 31**

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**Purac (continued)**

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Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: PURAC Powder MA 31 (continued)</b>			
• 15173 Sodium Hydrogen Malate 31%, Malic acid 69%	OUV3-B4F15CE	Pareve	Ⓢ Symbol required.

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