UL GMP CERTIFICATION PROGRAM

<table>
<thead>
<tr>
<th>BENEFITS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accreditation</td>
<td>Globally, UL Registrar LLC (UL) is Accredited by the American National Standards Institute (ANSI) and the ANSI-ASQ National Accreditation Board (ANAB) to provide the ANSI and ANAB Symbols for a variety of audit schemes, which highlights UL Registrar’s technical competence to perform scheme related audits and inspections.</td>
</tr>
<tr>
<td>Marks</td>
<td>UL is permitted to use the UL Process/Management System Certification Marks and Badges, The Natural Products Association (NPA) Mark, the ANSI/ANAB Mark, and, when permitted, the ILAC MRA Mark and the IAF-MLA Mark. The purpose of these Marks is to highlight technical competence and increase customer confidence.</td>
</tr>
<tr>
<td>UL Expertise</td>
<td>UL has been a trusted partner in consumer and product safety for 120 years. UL has produced talented auditors with years of industry experience and technical knowledge. The expertise of the UL Auditor is specialized by industry and the type of product produced.</td>
</tr>
<tr>
<td>Satisfy Multiple Customer Needs</td>
<td>Multiple retailers/brands accept UL Registrar’s GMP Reports and accredited certificates. Four separate audits for four separate customers may all be included in one audit report.</td>
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<tr>
<td>Reduce Annual Audit Fatigue and Cost</td>
<td>Since the GMP Audit Report can satisfy multiple annual stakeholder requirements, the number of annual audits for a facility may be reduced, thus reducing annual audit cost.</td>
</tr>
<tr>
<td>Commitment to Integrity</td>
<td>UL carries out services with the highest level of integrity and has been doing so for 120 years. UL aims to boost confidence and foster trust in the marketplace as well as accredited certification.</td>
</tr>
<tr>
<td>Continuous Improvement</td>
<td>With each audit, a facility has the opportunity to improve, and every corrective action is a chance to show customers that an organization is moving towards a higher level of continual improvement and quality.</td>
</tr>
<tr>
<td>Quality and Consistency</td>
<td>The UL Registrar Dietary Supplement Audit Tool mirrors the Food and Drug Administration’s Code of Federal Regulations 21 CFR Part 111. The improved audit tool and report have built in responses and sample sizes so that UL Auditors share a consistent approach.</td>
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AUDIT BASIS

The UL Dietary Supplement Audit Tool is based on the requirements of the FDA’s 21 CFR Part 111, the Natural Products Association Dietary Supplement Standard and ANSI/INSF 173 Section 8. The audit tool was created around the Subparts of the 21 CFR Part 111 Regulation.

Along with the FDA Part 111 requirements, the UL Dietary Supplement audit tool takes into account the FDA regulations for Branding, Claims, and FSMA Preventive Controls.
AUDIT SCOPE

UL Registrar LLC offers Good Manufacturing Practices audits for Dietary Supplements, Dietary Ingredients, Nutraceuticals, and Natural Products. UL certifies manufacturers, packagers, warehouses, distribution centers and contract facilities of dietary supplements.

The Report/Audit Findings will be created through visual observation, employee and management interviews, and documentation review conducted by the auditor on site.

AUDIT PROCESS

The audit process begins when the audit is confirmed and scheduled. The auditor arrives on site, conducts an opening meeting, performs the audit and ends with a closing meeting. Following the audit, any Corrective Actions (CAPA) that may have been issued must be answered before certification can be awarded. Finally, the process ends in a final report, Certificate, Certification Mark and Certification Badge.

AUDIT REPORTING

<table>
<thead>
<tr>
<th>DOCUMENT</th>
<th>PROVIDED TO FACILITY</th>
<th>PROVIDED TO CLIENT</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audit Summary</td>
<td>■</td>
<td>□</td>
<td>This Document is used as a brief summary of the audit. The Audit Summary is received by the audited organization at the closing meeting and left on site. NOTE: Stakeholders do not accept the Audit Summary Report.</td>
</tr>
<tr>
<td>Corrective Action Form</td>
<td>■</td>
<td>■</td>
<td>The Corrective Action (CAPA) Form is used to document audit findings, factory responses, approval of factory responses, and to track closure of nonconformity. The CAPA Form is left on site with the audited organization.</td>
</tr>
<tr>
<td>Final Report</td>
<td></td>
<td>■</td>
<td>The auditee/audit client receives the audit report. It is not UL's responsibility to pass on reports to customers or the contract facility.</td>
</tr>
</tbody>
</table>
UL Registrar LLC is the first ANAB and ANSI accredited audit body to introduce risk assessment along with the use of risk tools into 21 CFR Part 111 audit requirements.

Risk can be defined as “the combination of the probability of an event and its consequences” (ISO/IEC Guide 73).

Over many months of careful study, evaluation, and analysis of the existing UL audit tools as well as the process for “scoring” audit results, UL has engaged industry experts, field auditors, former FDA Investigators, former FDA Directors, retailers and other interested stakeholders in the development of Risk Based Dietary Supplement Audit Tool based solely and entirely on risk factors.

The “audit scoring” criteria for this risk based audit tool is predicated on a risk assessment model known as the UL Process Evaluation Assessment of Risk or PEAR.

This risk analysis concept revolves around two fundamental factors of risk: 1) the Probability of Nonconformance occurring during UL’s audit or an unannounced visit from the FDA and, 2) the Severity of Risk to the consumer and/or end user of the UL Audit Report.

THE PEAR PROCESS
The Process Evaluation Assessment of Risk (PEAR) Description

The UL Risk Assessment is defined as a systematic process of organizing information to support a risk decision (Risk Priority Number (RPN) and Level of Risk Determination) to be made during the audit process.

“Risk assessment consists of the identification of hazards and the analysis and evaluation of risks associated with exposure to those hazards” (ICH Q9).

UL’s proprietary PEAR model uses a combination of risk-based criteria generated from a detailed analysis matrix. The risk matrix takes into account the probability of nonconformance occurring and the likelihood and severity of risk to consumers and other stakeholders.

These criteria were selected in order to establish a Risk Priority Number (RPN) for each specific CFR Sub-Clause and/or Sub-Paragraph specific to the Dietary Supplement audit and/or Standard under assessment. A mathematical equation is used to generate a Final Risk Priority Number (FRPN) at the conclusion of the assessment.

The PEAR and the Dietary Supplement Audit Tool take into account many factors, including but not limited to:

- FDA 483’s
- FDA Warning Letters
- FDA Current "Hot Spots"
- Previous UL Dietary Supplement CAPAs
- Recalls
- UL Technical Knowledge
- Personal Industry Experience
- Stakeholder Concerns
RISK CRITERIA

Based on the enhanced Risk Based Dietary Supplement Audit Tool and the resulting PEAR, the "scoring" or risk criteria has changed from three colors: Green/Compliant (100-80), Yellow/Marginal (79-60) and Red/Noncompliant (59-0) to a new risk model, noted below. The new approach now has five risk ranges.

The New UL Registrar Dietary Supplement GMP Risk Model

<table>
<thead>
<tr>
<th>FINAL RISK PRIORITY NUMBER</th>
<th>RISK LEVEL</th>
</tr>
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<tbody>
<tr>
<td>100 to 96</td>
<td>Reasonable Risk</td>
</tr>
<tr>
<td>95.99 to 89.99</td>
<td>Limited Risk</td>
</tr>
<tr>
<td>89.98 to 80.99</td>
<td>Average Risk</td>
</tr>
<tr>
<td>80.98 to 71.99</td>
<td>Medium Risk</td>
</tr>
<tr>
<td>71.98 and below</td>
<td>High Risk</td>
</tr>
</tbody>
</table>

Each audited facility will fall into one of the above risk levels and will receive an overall Final Risk Priority Number at the conclusion of an audit.

The risk levels can be defined as:

- **Reasonable Risk**: With all types of activities, there is assumed risk, but no current threats or exposed risks were identified during the assessment.

- **Limited Risk**: An observed departure from specific SOP Requirements was noted and where no exposed risk was identified during the assessment. More likely than not the finding would have resulted in no FDA 483’s being raised minor departure from GMP/GCP Requirements.

- **Average Risk**: A minor departure from GMP/GLP/SOP Requirements where objective evidence gathered during the audit may conclude that limited or no health risk to the consumer or the stakeholder using the report was observed. An FDA 483 would probably be issued by FDA. A warning letter may be raised but it is unlikely.

- **Medium Risk**: A Deviation from GMP/GLP (i.e. departure from Regulations and Requirements) or for which an FDA 483 and/or warning letters would most likely be issued and where it could be concluded that there may be some health risk to the consumer.

- **High Risk**: Potential risk of harm/death to the user/ warning letter would be issued by the FDA.

Additionally, the Final Risk Priority Number (FRPN) correlates to the level of risk deemed at the audited organization. Though this FRPN will look like a numerical score on the final report, it will simply express the level of risk based on a mathematical calculation associated with the level of risk noted on the PEAR. The audit tool and final report will not contain an overall numerical score like previous reports. This tool is strictly risk-based, so the outcome of the audit is also strictly risk-based.

Requirements will be weighted based on the risk severity and probability of occurrence. Corrective Actions will be defined as Critical, Major and Minor. Any Critical or Major CAPAs will require a follow-up assessment, as will falling within the Medium and High Risk Levels. All follow-up assessments will be conducted as determined and deemed necessary by the UL Registrar Certification Committee.

In terms of the UL PEAR process and our research on risk, we have updated our definitions of Minor and Major Nonconformances and, at the request of stakeholder feedback, added a third classification, Critical Nonconformance.

Nonconformance types can be defined as:

**Minor Nonconformance** – Objective evidence gathered during the audit would conclude an insignificant health risk to the consumer.

**Major Nonconformance** – Objective evidence gathered during the audit would conclude that a systemic failure of any system, procedure, process or failure to comply with required regulations was identified to have occurred.

**Critical Nonconformance** – Will or may result in a significant risk of producing a Dietary Supplement, Dietary ingredient, etc. that when used in a finished product, is harmful to the user.

The nonconformance types above were selected based on the severity of risk and the likelihood of occurrence.
UL has elected to remove "words of merit," such as "Pass," "Fail," "Compliant," "Marginal," etc. UL has also decided to remove the numerical, percentage score as the score can be interpreted differently by UL customers, stakeholders and end users of the report. Therefore, a Final Risk Priority Rating will be identified on the report.

UL is confident that by identifying and reporting the Risk Rating on the report, the end user has far greater understanding of the impact, and that risk has more weight and meaning to interested parties than a mere score or words of merit.

The UL risk evaluation of a factory and reporting on the level of risk observed at the factory during the audit allows stakeholders and report end users to make reasonable decisions about the factory based on the level of risk they are comfortable accepting, instead of basing such a decision on an arbitrary score.

References:
- The Institute of Risk Management’s Standard.
- The World Health Organization.
FAQs

Last year I had a score and this year I have a risk level. Where is my score this year?
The enhanced Dietary Supplement GMP Audit Tool is solely risk based. The outcome of the audit is a “risk level,” not a numerical “percentage score.” The Final Risk Priority Number (FPRN) is NOT a score or a percentage from 1% to 100%, but a mathematical calculation tied to the level of risk assigned to the associated RPN.

Have the UL GMP Requirements changed that were found in the Previous Final Report?
Yes. All UL-specific Requirements and Implementation Guidelines have been removed. The Audit Tool is strictly based on FDA 21 Part 111 and the Natural Products Association Dietary Supplement Standards.

I need a follow-up audit, but did not receive a new audit report and new FRPN/risk level. Why?
With the enhanced Dietary Supplement GMP Audit Tool, follow-up audits will be conducted to strictly close out the prior CAPAs. A follow-up report will not be generated, nor a new risk level/score issued. The closed/verified CAPA forms will be the output of the follow-up audit.

Have you added Critical Nonconformances to the audit report?
Yes, the nonconformance levels are now Minor, Major and Critical.

I have received corrective actions, how do I respond?
Please respond to corrective actions and send the form to LST.ENF.CAPA@ul.com. Please refer to the Procedure for Certification for further CAPA information.

What should I do with the UL Management System Certification Mark and Badge and the UL Process Certification Mark and Badge?
After successful completion of a GMP Certification audit, you will receive your final report, UL Certificate of Conformance and UL Certification Mark and Badge. The UL Management System/Process Certification Mark will be placed on your Certificate. The UL Management System/Process Certification Badge may be used on your website, on your marketing materials, on your tradeshow booth, etc. The UL Certification Marks and Badges must be used properly and according to the Use of the UL Mark/Badge Document.

For more information on the UL Registrar Dietary Supplement Audit Tool Risk Assessment, please contact ULRinfo@ul.com

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