

Ransom Naturals Ltd (RNL)

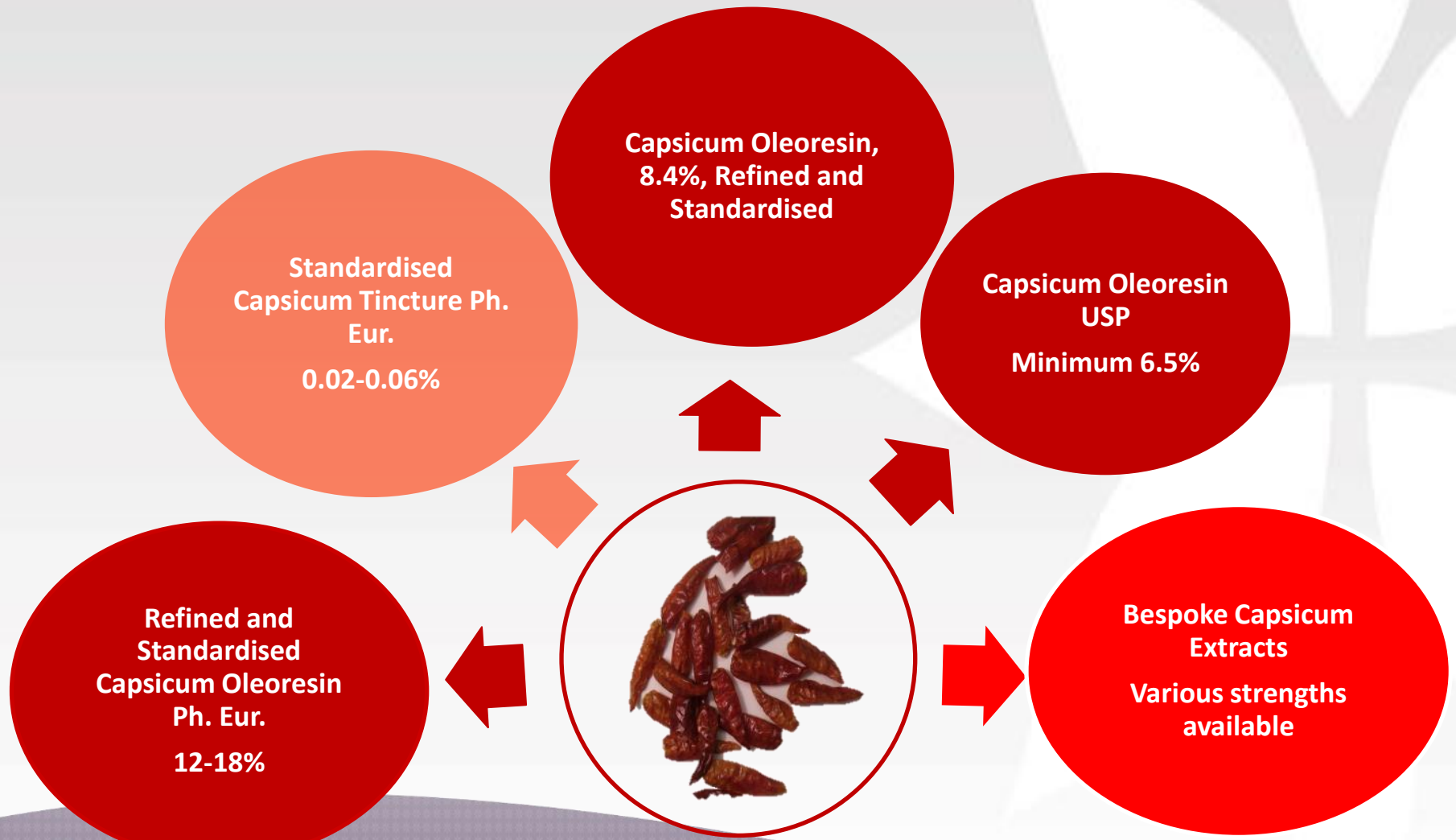
Capsicum related extracts – an overview

- Background
- Our offer – Extract type & form
- Quality & Compliance
- Regulatory Support – your partner

RNL Capsicum Background

- Chilli peppers as raw material (Botanical Family: Solanaceae)
- Increasing interest in Capsaicinoid constituents (inherent in chilli peppers) for medical indications such as arthritis, weight loss, respiratory and, more recently, angina
- Secure & compliant supply chain – Pharmacopoeial standard and GACP assured
- To pharmacopoeial monographs and/or customer specifications (dilution from in house compliant primary concentrate where applicable)
- Unrivalled European experience with Capsicum related products
- Compliant GMP facility based in the United Kingdom

Product Examples - extract type and form



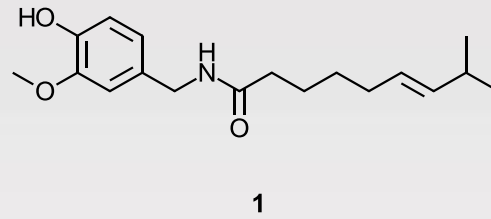
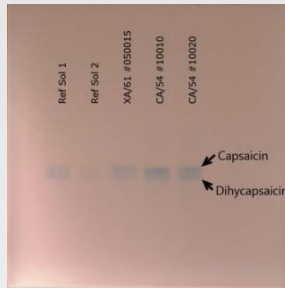
- Pharmacopoeia certified raw material
- GMP Manufacturing Facility

Quality & Compliance

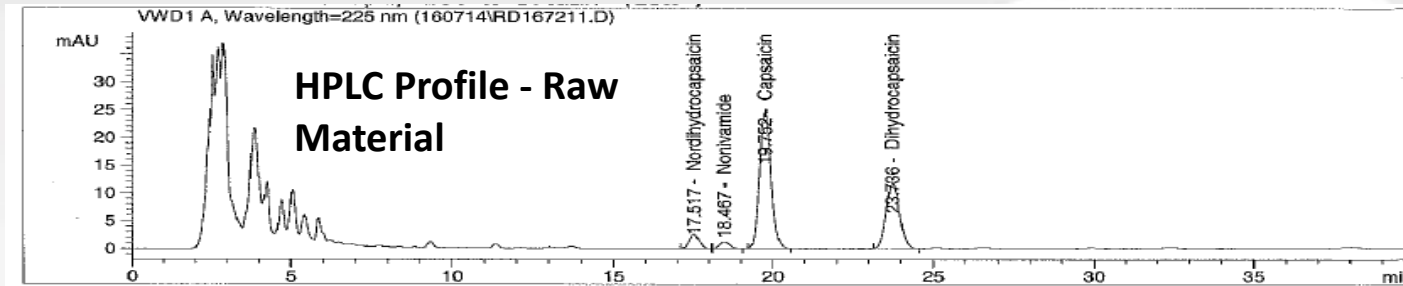
Chemical Fingerprinting:

- We profile a range of active constituents ensuring quality and compliance
- We ensure there is full traceability from raw material to finished product
- We deliver consistent standardisation of products to pharmacopoeial, in house and customer specifications

HPTLC Example



Capsaicin



- Validated HPLC assay can readily detects extracts adulterated with nonivamide above the 5.0% limit, which might indicate a breach of compliance
- RNL strictly and compliantly control nonivamide content from raw material right through to the finished product.
- Nonivamide content below 5.0% of total capsaicinoids

Ransom Naturals Ltd

Regulatory Support & Formulations

- Leading EU GMP developer and manufacturer of Capsicum related extracts to pharmacopoeial standards
- Expertise in analytical methods, analytical validation & stability
- From laboratory, through scale up through to commercial production
- We offer regulatory support to customers up to and including licensing submission
- In depth finished formulation knowledge across Pharmaceutical and Personal Care Sectors