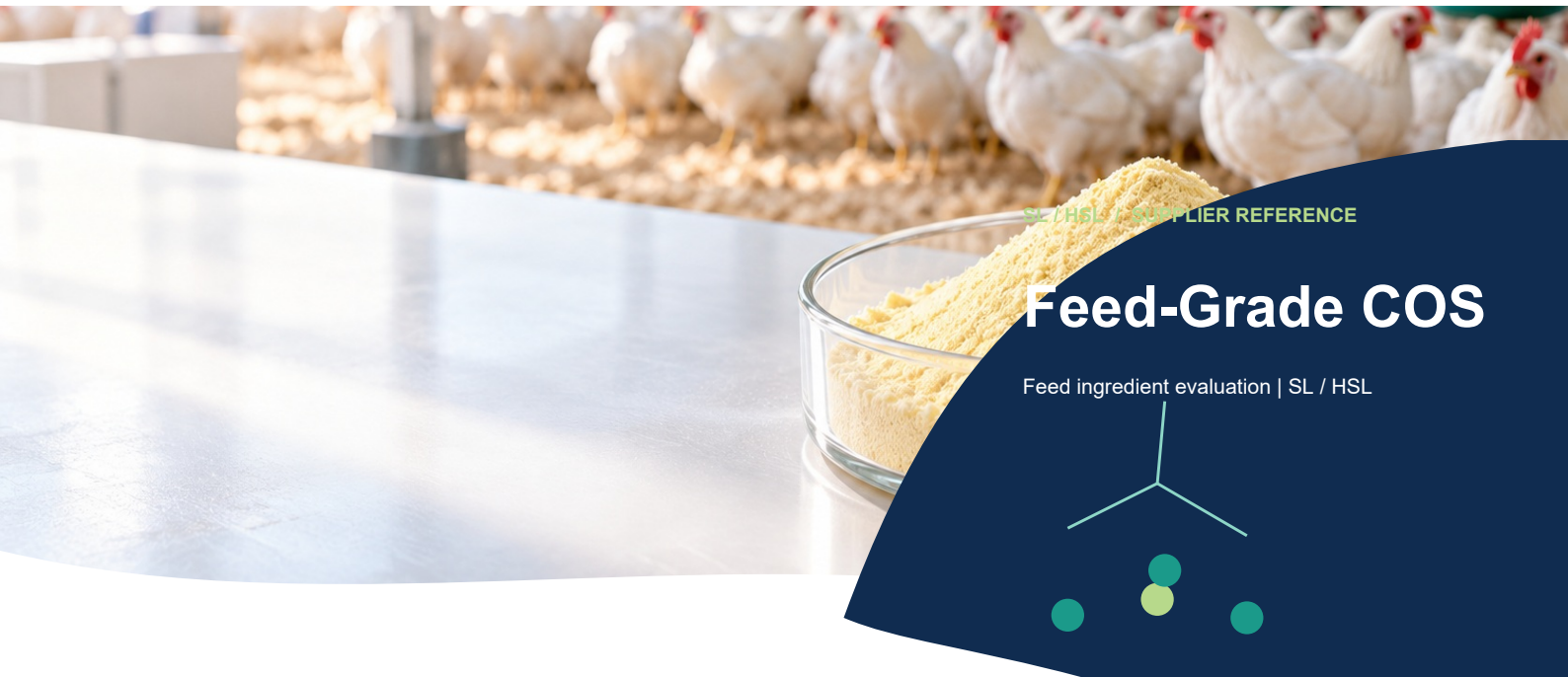




SL / HSL / SUPPLIER REFERENCE

Feed-Grade COS

Feed ingredient evaluation | SL / HSL



INGREDIENT STORY

Chitosan oligosaccharide (COS) is produced from chitosan by enzymatic hydrolysis. The supplied feed brochure describes two separate references, SL and HSL, with different listed assay values. They are not interchangeable specifications.

FROM MARINE CHITIN TO COS



Based on the supplied Zhongsheng flyer, the described upstream route starts with chitin from shrimp and crab shells, converted to chitosan and then enzymatically hydrolyzed to COS. Confirm the actual source and process for each lot.

RESEARCH LENS | ANIMAL NUTRITION

Studies explore COS in relation to intestinal microbiota and digestive outcomes in poultry and swine. Findings vary by material, dose and study design; this is general research context, not product-specific proof.

Swiatkiewicz et al., Journal of Animal Physiology and Animal Nutrition (2015), DOI: 10.1111/jpn.12222.

Feed-Grade COS | Product details

Supplier references summarized from the brochure provided for preliminary buyer review.

GRADE SNAPSHOT

Parameter	SUPPLIER FLYER VALUES
Appearance	Light yellow to yellowish-brown powder
Assay	$\geq 80\%$
Convertible glucosamine	$\geq 60\%$
Molecular weight	322-2500 Da
Moisture / insolubles	$\leq 10\%$ / $\leq 1.0\%$
pH (1% solution)	5.0-7.0
As / Pb / Hg	≤ 5 / 30 / 0.5 mg/kg
Microbiology	See current batch COA for limits/results

PRODUCT FORMS

SL | Feed reference

Powder; listed assay $\geq 80\%$. Brochure lists 25 kg cardboard drum.

HSL | Separate reference

Buff powder; listed assay $\geq 10\%$. Full current specification and COA required.

PACKAGING & HANDLING

SL: supplier brochure lists 25 kg cardboard drums. Confirm liner, net weight and export packing for the exact lot.

Keep sealed in a dry, clean, cool place, away from contaminating materials and rain. Follow the label for the supplied grade.

WHERE BUYERS EVALUATE COS

Potential buyer segments include livestock and poultry feed, aquaculture feed, premix and feed-formulation businesses. Confirm species-specific suitability, permitted use and inclusion guidance with qualified technical and regulatory teams.

Important: Research context is general literature, not proof of the performance of this specific grade. Confirm grade identity, current specification, batch COA, intended use, inclusion guidance and destination-market requirements before purchase or use.

Research background: Swiatkiewicz et al., Journal of Animal Physiology and Animal Nutrition (2015), DOI: 10.1111/jpn.12222.

BUILD YOUR TECHNICAL REVIEW

Ask Luma Ingredients for the current grade specification, lot-specific COA, pack options and an application discussion for your target market.

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