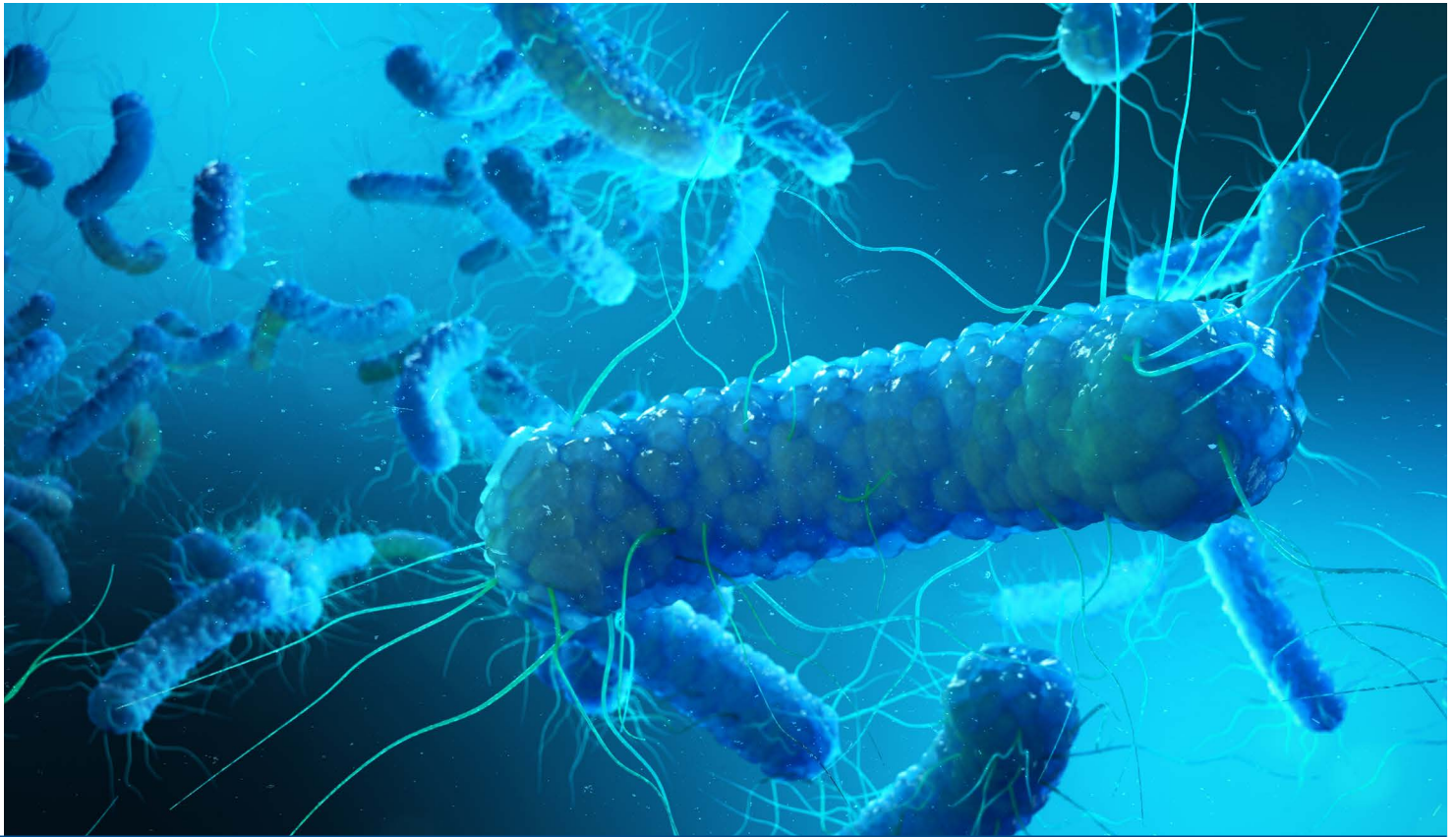


Know what's inside.



GBA GROUP Salmonella Serotyping



Salmonella is one of the most common pathogens in our food. In order to reduce the number of outbreaks, national agencies test for salmonella throughout the entire supply chain. From the producer to the consumer, there is a monitoring program that complies with European and national legislation.

When the results of a salmonella test are positive, serotyping can determine the distinct variation, for example, Typhimurium, Enteritidis, or Infantis. There are more than 2,500 serotypes known thus far.

In certain cases, serotyping is required by law. For companies that are regularly confronted with salmonella contamination, it can be a useful instrument to help track down the source and research the root cause.

The GBA Group provides you with fast and reliable

salmonella serotyping based on the differences in the DNA sequence between the various salmonella serotypes.

By means of DNA sequencing, more than 300 types can be identified. This enables us to identify the salmonella serotypes that occur most frequently in food products..

Common carriers of salmonella are primarily poultry and pigs, so transmission generally occurs through contact with raw animal products, especially poultry, eggs, and pork. However, other food products such as spices (e.g., paprika and pepper), herbs, nuts, and oilseeds can also be contaminated with salmonella. The serotypes that are most commonly found on live poultry have been validated by ISO 16140-6. This way, we can also report results on live animals in accordance with the legal regulations applicable in various countries.



GBA GROUP **Salmonella Serotyping**

The Technique

The serotyping is conducted by means of DNA sequencing, which is based on a microarray. Each position on the microarray receives a specific DNA marker that corresponds with a specific target DNA sequence.

Spots on the microarray only appear when the DNA matches the markers exactly. Based on which of these markers appear, a pattern is generated that precisely indicates which serotype the salmonella belongs to.

The serotyping is carried out at least once a week.

The Benefits

The GBA Group provides you with a solution that helps shed light on the salmonella contamination and improves traceability.

Objective results are guaranteed since the interpretation of the DNA sequences is automated in the database.

Accreditation

Lavetan is accredited by BELAC in accordance with ISO 17025 and officially recognized by FASFE (BE) and NVWA (NL).

All of the serotypes listed below are ISO 17025-accredited and AOAC-certified. Serotypes with ° are ISO 16140-6-validated. Serotypes marked with * are OIE-certified.

1,4,[5],12:i:- °	Cerro °	Haifa	Manchester	Poona
4,[5],12:d:-	Chandans	Hartford	Manhattan	Reading
Abaetetuba	Chester	Havana	Matadi	Regent
Aberdeen	Choleraesuis	Heidelberg *	Mbandaka °	Rissen °
Abony	Coeln	Hvitittingfoss	Meleagridis	Rubislaw
Adelaide	Colindale	Ibadan	Miami	Ruiru
Agma	Corvallis	Idikan	Michigan	Saintpul *
Agona °*	Cotham	Indiana °*	Mikawasima	Sandiego
Alachua	Cubana	Infantis °*	Minnesota °	Schwarzengrund
Albany	Derby °*	Isangi	Monschau	Senftenberg °*
Altona	Dublin *	Jangwani	Montevideo *	Sceranga
Amsterdam	Duisburg	Javiana	Muenchen	Stanley
Anatum °*	Durban	Kapemba	Muenster or Reading	Stourbridge
Augustenborg	Eastbourne	Kedougou °	Nagoya	Taksony
Banana	Eboko	Kentucky	Napoli	Telekebir
Bareilly	Emek	Kiambu	Newport °*	Tennessee °*
Bergen	Enteritidis °*	Kirkee	Ohio °	Thompson
Berta	Fresno	Kisarawe	Oranienburg	Typhi
Blockley	Gaminara	Kottbus *	Orion	Typhimurium °*
Bongori	Gallinarum Gallinarum	Lagos	Oslo	Uganda
Bovismorbificans	Gallinarum Pullorum	Lexington	Quakam	Urbana
Broenderup °	Give °	Lille	Öanama	Veneziana
Brandenburg °	Glostrup	Litchfield	Paraty phi A	Virchow °*
Bredeney *	Gloucester	Liverpool	Paraty phi B*	Wandsworth
Brunei	Goldcast	Livingstone °	Paraty phi B var Java °*	Wetevreden
Carno	Grumpensis	Llandoff	Paraty phi C	Worthington
Carrau	Hada °*	London	Pomona	Yoruba

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