| Platforms | Predicted serogroup | Predicted serotypes | Antigenic formula | Number of isolates | Total (%) |
|-----------|---------------------|---------------------|-------------------|--------------------|-----------|
| **Laboratory** (n=100) | | | | | |
| B | Typhimurium | - | 7 | 46 |
| | N/A | - | 39 |
| C | N/A | - | 8 | 8 |
| D | Enteritidis | - | 15 | 46 |
| | N/A | - | 31 |

| **SISTR** (n=100) | | | | | |
| B | I 4,[5],12:i:- | 4:i:- | 25 |
| | Typhimurium | 4:i:1,2 | 13 |
| | Derby | 4:f,g:- | 2 |
| | Stanley | 4:d:1,2 | 2 |
| | Agona | 4:f,g,s:- | 1 |
| | Saintpaul | 4:e,h:1,2 | 1 |
| C | Rissen | 7:f,g:- | 4 |
| | Virchow | 7:r:1,2 | 1 |
| | Singapore | 7:k:e,n,x | 1 |
| | Kentucky | 8:i:z6 | 1 |
| | Goldcoast | 8:r:l,w | 1 |
| | Concord | 7:l,v:1,2 | 1 |
| D | Enteritidis | 9:g,m:- | 45 | 46 |
| | Javiana | 9:l,z28:1,5 | 1 |
| P | Mgulani | 38:i:1,2 | 1 | 1 |

| **SeqSero1** (n=100) | | | | | |
| B | I 4,[5],12:i:- | 4:i:- | 26 |
| | Typhimurium | 4:i:1,2 | 11 |
| | Derby | 4:f,g:- | 2 |
| | Stanley | 4:d:1,2 | 1 |
| | Agona | 4:f,g,s:- | 1 |
| | N/A | 4:d:- | 1 |
| | N/A | 4:-:1,2 | 1 |
| | N/A | 4:-:- | 1 |
| C | Rissen | 7:f,g:- | 4 |
| | Virchow | 7:r:1,2 | 1 |
| | Singapore | 7:k:e,n,x | 1 |
| | Kentucky | 8:i:z6 | 1 |
| | Goldcoast or Brikama* | 8:r:l,w* | 1 |
| | N/A | 7:-:1,2 | 1 |
| D | Enteritidis | 9:g,m:- | 45 | 46 |
| | II 9,12:1,l28:1,5 or Javiana* | 9:1,z28:1,5* | 1 |
| P | N/A | 38:-:1,2 | 1 | 1 |

* Multiple serovar predictions sharing the same antigenic formula
N/A- Not predicted
| Isolate ID | Laboratory | SISTR | SeqSero1 | Disagreements          | Description                                                                 |
|------------|------------|-------|----------|------------------------|-----------------------------------------------------------------------------|
| A013_06/19 | B          | P     | P        | Incorrect result        | incorrect calling of O antigenic determinants with respect to traditional serotyping |
| A084_08/19 | B          | C     | C        | Incorrect result        | incorrect calling of O antigenic determinants with respect to traditional serotyping |
| A087_08/19 | N/A        | B     | B        | Incongruent result      | non-expressed of O antigenic determinant phenotypically                      |

N/A- Not predicted.
Table S3 Resistance genes and resistance phenotype detected in the 100 Salmonella isolates by ResFinder 2.1

| Resistance genes | Resistance phenotype | Total (n=100) | Agona (n=1) | Concord (n=1) | Derby (n=2) | Enteritidis (n=45) | Goldcoast I (n=1) | Goldcoast II (n=25) | Javnava (n=1) | Kentucky (n=1) | Mguani (n=1) | Rissen (n=1) | Saingapore (n=1) | Stanley (n=2) | Typhimsrium (n=13) | Virchow (n=1) |
|------------------|---------------------|--------------|-------------|--------------|-------------|-------------------|------------------|-------------------|--------------|----------------|-------------|--------------|----------------|--------------|------------------|---------------|
| Aminoglycoside   |                     |              |             |              |             |                   |                  |                   |              |                |             |              |                |              |                  |               |
| strA             | STR                 | 62           | -           | -            | -           | 39                | -                | 22                | -            | -              | -           | -            | -              | -            | 1                | -             |
| strB             | STR                 | 62           | -           | -            | -           | 39                | -                | 22                | -            | -              | -           | -            | -              | -            | 1                | -             |
| aadA5            | STR                 | 2            | -           | -            | -           | 1                 | -                | -                 | -            | -              | -           | -            | -              | -            | 1                | -             |
| aadA7            | STR                 | 1            | -           | -            | -           | -                 | -                | 1                 | -            | -              | -           | -            | -              | -            | -                | -             |
| aadA16           | STR                 | 1            | -           | -            | -           | -                 | -                | -                 | -            | -              | -           | -            | -              | -            | 1                | -             |
| aadA17           | STR                 | 1            | -           | -            | -           | -                 | -                | 1                 | -            | -              | -           | -            | -              | -            | -                | -             |
| aadA1            | STR                 | 20           | -           | -            | 1           | 1                 | 7                | -                 | -            | 2              | -           | -            | 9              | -            | -                | -             |
| aadA2            | STR                 | 22           | -           | -            | 1           | 1                 | 1                | 8                 | -            | -              | 2           | -            | -              | -            | 9                | -             |
| aadA24           | STR                 | 2            | -           | -            | -           | -                 | -                | -                 | -            | -              | -           | -            | -              | -            | -                | -             |
| aac(3)-Iva       | GEN                 | 94           | 1           | 2            | 44          | 1                 | 1                | 1                 | 1            | 4              | 2           | 2            | 12             | 1            | -                | -             |
| aac(3)-Id        | GEN                 | 2            | -           | -            | -           | -                 | -                | -                 | -            | -              | -           | -            | 2              | -            | -                | -             |
| aac(3)-Id        | GEN                 | 1            | -           | -            | -           | -                 | -                | 1                 | -            | -              | -           | -            | -              | -            | -                | -             |
| aph(3’)-Ia       | NEO                 | 2            | -           | -            | -           | -                 | -                | 1                 | -            | -              | -           | -            | 1              | -            | -                | -             |
| aph(3’)-Ic       | NEO                 | 3            | -           | 1            | -           | 2                 | -                | -                 | -            | -              | -           | -            | -              | -            | -                | -             |
| aph(4)-Ia        | HGY B               | 6            | -           | -            | 1           | -                 | -                | 4                 | -            | -              | -           | -            | -              | -            | 1                | -             |
| Quinolone        |                     |              |             |              |             |                   |                  |                   |              |                |             |              |                |              |                  |               |
| aac(6) + Ibr-cr  | CIP                 | 2            | -           | -            | -           | -                 | -                | 1                 | -            | -              | -           | -            | -              | -            | 1                | -             |
| qnrS1            | CIP                 | 15           | -           | -            | 1           | 1                 | 1                | 4                 | -            | -              | -           | 8            | -              | -            | -                | -             |
| oqxA             | CIP                 | 3            | -           | -            | -           | -                 | -                | 2                 | -            | -              | -           | 1            | -              | -            | -                | -             |
| oqxB             | CIP                 | 3            | -           | -            | -           | -                 | -                | 2                 | -            | -              | -           | 1            | -              | -            | -                | -             |
| gyrA             | CIP                 | 52           | -           | -            | 44          | -                 | 5                | -                 | 1            | 1              | -           | 1            | -              | -            | 1                | -             |
| parC             | CIP                 | 15           | 1           | 1            | 2           | -                 | 1                | 1                 | -            | 1              | 4           | 2            | -              | 2            | 1                | -             |
| Sulphanomide     |                     |              |             |              |             |                   |                  |                   |              |                |             |              |                |              |                  |               |
| sul2             | SMX                 | 74           | -           | -            | 39          | 1                 | 24               | -                 | -            | -              | -           | 10           | -              | -            | -                | -             |
| sul3             | SMX                 | 20           | -           | -            | 1           | 1                 | 8                | -                 | -            | 2              | -           | -            | 8              | -            | -                | -             |
| Trimethoprim     |                     |              |             |              |             |                   |                  |                   |              |                |             |              |                |              |                  |               |
| dfrA27           | SXT                 | 1            | -           | -            | -           | -                 | -                | -                 | -            | -              | -           | -            | -              | -            | 1                | -             |
| dfrA17           | SXT                 | 2            | -           | -            | -           | 1                 | -                | -                 | -            | -              | -           | -            | -              | -            | 1                | -             |
| dfrA14           | SXT                 | 2            | -           | -            | -           | 2                 | -                | -                 | -            | -              | -           | -            | -              | -            | -                | -             |
| dfrA12           | SXT                 | 17           | -           | -            | -           | 1                 | 6                | -                 | -            | 2              | -           | -            | 8              | -            | -                | -             |
| Tetracycline     |                     |              |             |              |             |                   |                  |                   |              |                |             |              |                |              |                  |               |
| tet(A)           | T                   | 25           | -           | 1            | 7           | 1                 | 2                | -                 | 1            | 4              | -           | 9            | -              | -            | -                | -             |
| Tet(M) | T  | 26 | - | - | - | - | 25 | - | - | - | 1 | - |
|-------|----|----|---|---|---|---|----|---|---|---|---|---|
| Phenicol | catB3 | CHL | 2 | - | - | - | - | 1 | - | - | - | - | 1 | - |
| Phenicol | cmrA1 | CHL | 23 | - | - | 1 | 1 | 1 | 9 | - | - | 2 | - | - | 9 | - |
| Phenicol | floR | CHL | 21 | - | - | - | 2 | 1 | 8 | - | - | - | - | - | 10 | - |
| Beta-lactam | blaTEM-1B | AM | 73 | - | - | - | 40 | 1 | 21 | - | 1 | - | 2 | - | - | 8 | - |
| Beta-lactam | blaOXA-10 | AM | 3 | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - |
| Beta-lactam | blaOXA-1 | AM | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| Beta-lactam | blaNDM-1 | AM, CTX, CRO, MEM | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - |
| Beta-lactam | blaCTX-M-55 | AM, CTX, CRO | 4 | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | 1 | - |
| Beta-lactam | blaCTX-M-64 | AM, CTX, CRO | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| Beta-lactam | blaCTX-M-65 | AM, CTX, CRO | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Rifampicin | ARR-2 | RMP | 3 | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - |
| Rifampicin | ARR-3 | RMP | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| Macrolide | mph(A) | AZM | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| Lincosamide | lnu(F) | LINC | 8 | - | - | - | 1 | - | 7 | - | - | - | - | - | - | - | - | - | - |
| Colistin | mcr-1 | CST | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

STR-Streptomycin; GEN-Gentamycin; NEO-Neomycin; HGY-Hygromycin B; CIP-Ciprofloxacin; SMX-Sulfamethoxazole; SXT-Trimethoprim-Sulfamethoxazole; T-Tetracycline; CHL-Chloramphenicol; AM-Ampicillin; CTX-Cefotaxime; CRO-Cetriaxone; MEM-Meropenem; RMP-Rifampicin; AZM-Azithromycin; LINC-Lincomycin; CST-Colistin.
Table S4 Distribution of nontyphoidal *Salmonella* (n=100) by patient’s age

| Serogroup | Serovars                        | <12m (n (%)) | 12 to <24m (n (%)) | 24 to <60m (n (%)) | Total n |
|-----------|---------------------------------|--------------|--------------------|--------------------|---------|
| Total patients |                                 | 22 (13.6) | 39 (41.0) | 39 (66.7) | 100     |
| D         | *S*. Enteritidis                | 3 (13.6)    | 16 (41.0) | 26 (66.7) | 45      |
| B         | *S*. Typhimurium                | 2 (9.1)     | 8 (20.5)  | 3 (7.7)  | 13      |
| B         | *S*. I4,[5],12:i:-             | 10 (45.5)   | 9 (23.1)  | 6 (15.4) | 25      |
| Others *Salmonella* spp. |                                 |             |          |          |         |
| B         | *S*. Agona                      | 0 (0)        | 0 (0)    | 1 (2.6)  | 1       |
| C         | *S*. Concord                    | 0 (0)        | 1 (2.6)  | 0 (0)    | 1       |
| B         | *S*. Derby                      | 2 (9.1)     | 0 (0)    | 0 (0)    | 2       |
| C         | *S*. Goldcoast                  | 1 (4.5)     | 0 (0)    | 0 (0)    | 1       |
| D         | *S*. Javiana                    | 0 (0)        | 1 (2.6)  | 0 (0)    | 1       |
| C         | *S*. Kentucky                   | 0 (0)        | 0 (0)    | 1 (2.6)  | 1       |
| P         | *S*. Mgulani                    | 1 (4.5)     | 0 (0)    | 0 (0)    | 1       |
| C         | *S*. Risen                      | 3 (13.6)    | 1 (2.6)  | 0 (0)    | 4       |
| B         | *S*. Saintpaul                  | 0 (0)        | 1 (2.6)  | 0 (0)    | 1       |
| C         | *S*. Singapore                  | 0 (0)        | 0 (0)    | 1 (2.6)  | 1       |
| B         | *S*. Stanley                    | 0 (0)        | 2 (5.1)  | 0 (0)    | 2       |
| C         | *S*. Virchow                    | 0 (0)        | 0 (0)    | 1 (2.6)  | 1       |