A.8 Application Standard IFAH (Internation Federation for Animal Health)

By way of example, the Application Standard of the IFAH (International Federation for Animal Health) Guideline for Application of GS1 DataMatrix on Animal Health Products is summarised below. For full details refer to the complete guideline available from www.ifahsec.org

- **Data Structure and syntax:**
  - Usage characters: all characters from ASCII 128
  - Syntax and structure:
    - GS1 DataMatrix and GS1 Application Identifiers
    - Application Identifiers which may be used : AIs 01, 02, 10, 17 & 37
    - FNC1 Codeword 232 in 1st position (GS1 DataMatrix)
    - <GS> codeword 29 (as a separator character as required)

- **Mandatory data requirements:**
  - GTIN,
  - Batch/Lot number,
  - Expiration date

- **Format of Data Matrix :**
  - The number of rows and columns is determined by the amount of data encoded and the symbol can be a square or rectangular form
  - X-dimension range of 0.19 mm to 0.38 mm (10 mils is recommended)

- **Human Readable Interpretation:**

All the required information (GTIN AI (01), batch number AI(10) and expiry date AI(17)) are to be printed in human legible characters in close proximity to the GS1 DataMatrix symbol. The recommended and minimum text character height are:

	Character Height (cm)	Character Height (in)	Character Height (points)
Recommended	0.2	0.08	5.76
Minimum	0.125	0.05	3.6

Marking techniques:

- Quality requirements:
  - All quality checks should be according to ISO/IEC 15415
  - The following aperture is set for verification:

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Aperture Diameter (0.001")/ Aperture ref Nº	Aperture Diameter (mm)	"X" dimension range (inch)	"X" dimension range (mm)
03	0.075	0.004 to 0.007	0.100 to 0.180
05	0.150	0.0071 to 0.013	0.180 to 0.330
10	0.250	0.0131 to 0.025	0.330 to 0.635
20	0.500	0.0251 and larger	0.635 and larger

Example:

2,8/05/660 would indicate that the average of the grades of the scan reflectance profiles, or of the scan grades, was 2,8 when these were obtained with the use of a 0,125 mm aperture (ref. no. 05) and a 660 nm light source, incident at 45°.

- Pass grades :
  - ISO/IEC 15415 Grade 1.5 (ANSI C) or better